Exhibit 35

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Page 1
 1
                    Cara R. Welch, Ph.D.
 2
            IN THE UNITED STATES DISTRICT COURT
            FOR THE NORTHERN DISTRICT OF GEORGIA
 3
                     ATLANTA DIVISION
 5
     UNITED STATES OF AMERICA,
 6
               Plaintiff,
                                     Civil Action No.
 7
                                     1:13-cv-13675-
       VS.
     UNDETERMINED QUANTITIES OF WBH-JCF
     1,3-DIMETHYLAMYLAMINE
 9
     HCl (DMAA),
10
               Defendant,
    and
11
12
     HI-TECH PHARMACEUTICALS,
     INC., and JARED WHEAT,
13
              Claimants.
14
15
16
             Deposition of Cara R. Welch, Ph.D.
17
                      Washington, D.C.
18
                 Tuesday, November 29, 2016
19
                           9:30 a.m.
20
21
22
23
     Reported by: Laurie Donovan, RPR, CRR
24
25
     Job No: 114996
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Deposition of CARA R. WELCH, Ph.D. Held at the offices of: U.S. Department of Justice Consumer Protection Branch 450 Fifth Street Northwest Room 6400-South Washington, DC 20001 Taken pursuant to notice, before Laurie Donovan, Registered Professional Reporter, Certified Realtime Reporter, and Notary public in and for the District of Columbia.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Cara R. Welch, Ph.D. A P P E A R A N C E S ON BEHALF OF THE PLAINTIFF: United States Food and Drug Administration 10903 New Hampshire Avenue Silver Spring, MD 20903 By: Joshua Davenport, Esq. ON BEHALF OF THE DEFENDANTS: Epstein Becker & Green One Gateway Center Newark, NJ 07102 By: Jack Wenik, Esq.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Cara R. Welch, Ph.D. EXAMINATION INDEX PAGE EXAMINATION BY MR. WENIK 6 EXHIBIT DESCRIPTION PAGE Exhibit 1 Notice of Deposition 7 Exhibit 2 Rule 26 Expert Report of Cara Welch, Ph.D	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Cara R. Welch, Ph.D. (Exhibits continued) EXHIBIT DESCRIPTION PAGE Exhibit 9 Search results by Rebecca Allen and Steven Casper, Bates number GOV-006883, Dec. 31, 2015 90 Exhibit 10 Search results by Rebecca Allen and Steven Casper, Bates number GOV-027778, Sept. 21, 2016 93 Exhibit 11 Article entitled "Methylhexanamine is not detectable in Pelargonium or Geranium species and their essential oils: A multi-center investigation" 98 Exhibit 12 Email chain, Bates number ElSohly 5891 101

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1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	PROCEEDINGS	2	you give an answer after the objection is
3	CARA R. WELCH, Ph.D.,	3	interposed. Unless you are instructed not to
4	having been first duly sworn, testified	4	answer a question, you should answer the question.
5	upon her oath as follows:	5	If at any point in time you want a
6	EXAMINATION BY COUNSEL FOR DEFENDANT	6	break, just let me know. I don't think we're
7	BY MR. WENIK:	7	going to be here the whole day. Your report is
8	Q Dr. Welch, I know you've been deposed	8	fairly narrow, so I assume we'll be out of here
9	once before, but let me give you preliminary	9	hopefully pretty quickly.
10	instructions which you may already have heard.	10	Any questions for me before we begin?
11	As you can see, we have a court	11	A No.
12	stenographer who is taking down the testimony, so	12	(Exhibit 1 was marked for
13	when I ask you a question, we need a verbal	13	identification.)
14	answer. Just saying "uh-huh" or a facial	14	(Exhibit 2 was marked for
15	expression or a nod won't work, so we need you to	15	identification.)
16	give an oral answer.	16	(Exhibit 3 was marked for
17	If I ask anything, and particularly if	17	identification.)
18	I've mispronounced a scientific term of art or you	18	BY MR. WENIK:
19	don't understand a question, by all means, ask me	19	Q So with that being said, I've placed
20	to rephrase it. Otherwise, I'll assume you heard	20	three documents in before you. Welch Exhibit 1,
21	the question and understood it.	21	for the record, is the deposition notice in this
22	Periodically your lawyer may object to a	22	case.
23	question. The way it works in this context as	23	Have you seen this before?
24	opposed to a court of law, we don't have a ruling	24	A No.
25	on the objection. You put it on the record and	25	Q All right. The one question I have
	Page 8		Page 9
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	is lawyers formally issue these things to	2	words, any new study or treatise or textbook that
3	schedule a deposition, if you will.	3	you haven't cited in that exhibit list to your
4	And looking at your Exhibit 2, which is	4	report, which we've marked as Welch Exhibit 2, if
5	your expert report, just take a look at that for a	5	there's anything new, we've asked for the
6	moment, and confirm I believe your signature	6	production of that today.
7	appears on page 14 of the document.	7	Is there any new material that you wish
8	(Witness peruses document.)	8	to cite or rely on in this matter to support your
9	THE WITNESS: Yes.	9	opinions?
10	BY MR. WENIK:	10	A No.
11	Q And the last two pages of the document	11	Q Thank you.
12	are Exhibit 1, which is your reference list.	12	All right. So other than any
13	Do you see that?	13	discussions with your lawyer, which I'm not
14	A Yes.	14	interested in, could you tell me what you did to
15	Q And I've actually separated out and	15	prepare for today's deposition.
16	marked as a separate exhibit your Exhibit 2 to	16	Did you review any documents, did you
17	your report, which I've marked as Deposition	17	talk to any of your colleagues or peers?
18	Exhibit 3, which is simply your CV.	18	A I did not talk to any of my colleagues.
19	Do you see that?	19	I reviewed my expert report, Exhibit 2. I
20	A Yes.	20	reviewed some sections of the Federal Food, Drug
21	Q All right. So getting back to the	21	and Cosmetic Act.
_	deposition notice, the Exhibit 1, the one question	22	Q All right. So let me discuss a little
22			1.14 -14
23	I have for you is what I've asked in there or	23	bit about some of your prior expert witness work.
23 24	what my firm has asked in there is that if there's	24	So if I turn to your Exhibit 2, on page
23		1	

	Page 10		Page 11
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	"Testimony in the last four years," and you list	2	or on behalf of the defendant?
3	two citations to two court cases.	3	A That was on behalf of the government.
4	Do you see that?	4	Q All right, and you list here that you
5	A Yes.	5	testified at trial. Was there an expert report
6	Q So let me take the first case, so United	6	that was prepared in that matter as well?
7	States versus Krueger. What type of case was	7	A Yes.
8	that? Was that a criminal case, civil case,	8	Q And did you prepare that report?
9	regulatory proceeding? What kind of case was	9	A Yes, I did.
10	that?	10	Q All right, and then we have another case
11	A This was a criminal case.	11	listed here, United States versus Cole.
12	Q And in what context did you testify in	12	What type of case was that, Doctor?
13	that case?	13	A That was a civil case. My testimony was
14	A My testimony was speaking to a	14	on current good manufacturing practices of the
15	particular ingredient, that it was excluded from	15	dietary supplement products produced by this firm.
16	the definition of a dietary supplement according	16	Q Actually, I should go back to the first
17	to Section 201(ff)(3) of the Act. It was not used	17	case. When you testified in the Krueger case,
18	as a dietary supplement or a food prior to being	18	were you an FDA employee at that time?
19	authorized for investigation as a new drug. The	19	A I was, yes.
20	ingredient was Sibutramine.	20	Q All right, and in the Cole case,
21	Q And in that case, the Krueger case, were	21	similarly, were you an FDA employee at that time?
22	you testifying as an expert witness or as a fact	22	A I was, yes.
23	witness?	23	Q All right, and you testified as an
24	A As an expert witness.	24	expert in the Cole case rather than a fact
25	Q And was that on behalf of the government	25	witness; is that correct?
	Page 12		Page 13
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	A Yes, as an expert.	2	Do you see that?
3	Q Okay, and did you prepare an expert	3	A Yes, I do.
4	report in that matter?		
		4	O SO JUST THITING YOUR ALTERITION TO THE
5	A Yes, I did.	4 5	Q So just turning your attention to the earliest block on page 2, which is a January 2014
5 6	,	5 6	earliest block on page 2, which is a January 2014
		5	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points
6	Q So the good manufacturing practices that	5 6	earliest block on page 2, which is a January 2014
6 7	Q So the good manufacturing practices that you testified about in the Cole case, did any of	5 6 7	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having
6 7 8	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume	5 6 7 8	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding
6 7 8 9	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say	5 6 7 8 9	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance
6 7 8 9 10	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA."	5 6 7 8 9 10	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing.
6 7 8 9 10 11	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have	5 6 7 8 9 10	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else?
6 7 8 9 10 11 12 13	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the	5 6 7 8 9 10 11	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case.
6 7 8 9 10 11 12 13 14	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV.	5 6 7 8 9 10 11 12 13 14	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking
6 7 8 9 10 11 12 13 14 15	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV. A Yes.	5 6 7 8 9 10 11 12 13 14 15	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking at the January '15 to February 2016 experience
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV. A Yes. Q And I'm just looking at the professional experience blocks. So you have one block from February 2016 to the present and one block from January 2015 to February 2016, and you have still another block there of January '14 to February 2016. All these	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking at the January '15 to February 2016 experience block, and you have a number of bullet points, and in the next to last bullet point in that block, you talk again about preparing expert witness testimony regarding dietary supplement labeling and GOP compliance. Was that also in the Cole matter, or was
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV. A Yes. Q And I'm just looking at the professional experience blocks. So you have one block from February 2016 to the present and one block from January 2015 to February 2016, and you have still another block there of January '14 to February 2016. All these of those blocks list your professional experience	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking at the January '15 to February 2016 experience block, and you have a number of bullet points, and in the next to last bullet point in that block, you talk again about preparing expert witness testimony regarding dietary supplement labeling and GOP compliance. Was that also in the Cole matter, or was this a different case?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV. A Yes. Q And I'm just looking at the professional experience blocks. So you have one block from February 2016 to the present and one block from January 2015 to February 2016, and you have still another block there of January '14 to February 2016. All these of those blocks list your professional experience in one capacity or another with the Food & Drug	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking at the January '15 to February 2016 experience block, and you have a number of bullet points, and in the next to last bullet point in that block, you talk again about preparing expert witness testimony regarding dietary supplement labeling and GOP compliance. Was that also in the Cole matter, or was this a different case? A I believe that is referring to the
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q So the good manufacturing practices that you testified about in the Cole case, did any of that have anything to do with DMAA? And I assume you understand what I'm referring to when I say "DMAA." A I do understand. It did not have anything to do with DMAA. Q Okay. I'm looking at Exhibit 3, which is the CV, your CV. A Yes. Q And I'm just looking at the professional experience blocks. So you have one block from February 2016 to the present and one block from January 2015 to February 2016, and you have still another block there of January '14 to February 2016. All these of those blocks list your professional experience	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	earliest block on page 2, which is a January 2014 to February 2016 block, one of the bullet points that you have here in your CV, you refer to having prepared expert witness testimony regarding dietary supplement labeling and GMP compliance with dietary supplement manufacturing. Does this pertain to any of the two cases we've just been talking about, or is this something else? A I that refers to the Cole case. Q Okay, and in the next block, I'm looking at the January '15 to February 2016 experience block, and you have a number of bullet points, and in the next to last bullet point in that block, you talk again about preparing expert witness testimony regarding dietary supplement labeling and GOP compliance. Was that also in the Cole matter, or was this a different case?

Page 14 Page 15 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 Q Okay, and then in the most recent 2 2 -- have anything to do with DMAA? 3 3 professional experience block, the February 2016 A No. I have not prepared an expert 4 to the present, again you have a number of bullet 4 report having to do with DMAA, before this one. points, and I'm looking at the third one, and you 5 5 Q Okay. 6 talk again about preparing expert witness 6 Now, staying for the moment on your 7 testimony and testified regarding dietary 7 experience regarding testimonial activities and supplement regulations. 8 expert activities, I note from your CV and your 8 Is this referring to a third matter that 9 expert declaration that you served for a number of 9 years in different capacities with the Natural we haven't already discussed, or is this referring 10 10 11 to one of the two cases you've already talked 11 Products Association; is that right? 12 about? 12 A Yes. 13 Q In that capacity with the Natural 13 A I'm sorry. This most recent block is referring to the Krueger case. The previous block Products Association, did you prepare expert 14 14 is probably referring to the Cole case or other reports or serve as an expert witness in any case? 15 15 expert testimony or expert witness reports that 16 16 A No. 17 I've prepared for cases that didn't necessarily go 17 Q Have you ever served as an expert witness on behalf of a dietary supplement company? to trial. 18 18 19 19 Q I see. So in addition to the Krueger 20 case and the Cole case, you may have prepared some 20 Q On behalf of a pharmaceutical company? expert witness reports, but you weren't deposed or 21 21 A No. testified; is that what you're saying? Q Have you ever personally -- and I'm only 22 22 interested in your professional capacity. I'm not A Correct. 23 23 24 Q Okay. Did any of those other expert 24 interested if you had a divorce or a car accident 25 witness reports -- other, obviously, than Exhibit 25 or anything like that. Have you ever been a Page 16 Page 17 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2 Food & Drug Administration in January of 2014; is 2. defendant or a plaintiff in a litigation in your 3 professional capacity, either as part of the NPA 3 that correct? 4 or as part of the FDA? 4 A Yes. A No. 5 5 Q So would it be fair to say then that you 6 6 had no involvement at all with any of the O Now, in these two matters that we're 7 7 referring to, the Krueger case and the Cole case, inspections that occurred at Hi-Tech it sounds like only one of them you actually 8 Pharmaceuticals in Georgia? 8 testified in a court of law, and that would have 9 9 A Correct. been the Krueger case; is that right? 10 Q And did you have any involvement with 10 11 any of the analysis or testing of any of the 11 A Yes. Q And in that case, the Krueger case, do 12 products that were seized pursuant to those 12 you recall whether the judge in that case made a 13 inspections? 13 ruling qualifying you as an expert in a particular 14 14 A I had no involvement. subject area? 15 Q Have you interviewed anyone from Hi-Tech 15 Pharmaceuticals since you became an employee at 16 A I don't recall. 16 17 Q What was the subject area of expertise 17 the FDA? that you recall testifying about in the Krueger 18 18 case? And I mean more general than the specific Q All right. So when was it -- let me 19 19 20 report. Was it organic chemistry? Was it 20 back up a bit. 21 regulations? Was it something else? 21 I assume as far as being an expert in A It was dietary supplement regulations. this case, the case we're sitting at today, you're 2.2 22 23 not being compensated in any fashion other than 23 Q Okay. Now, basically, as I read your CV, it 24 your, whatever salary you make from the FDA; is 24 25 looks like you were first employed by the Federal 25 that right?

	Page 18		Page 19
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	A Correct.	2	depositions of either the government's experts or
3	Q Okay. So when was it, roughly, if you	3	the defendant/claimant's experts?
4	can recall, that you began to serve as an expert	4	A No.
5	in this case as opposed to an FDA official, if you	5	Q Have you reviewed any of the expert
6	will?	6	reports of either the government's experts or the
7	A I believe I started drafting my expert	7	defendant/claimant's experts?
8	report for this case in November or December of	8	A I have not reviewed any of the
9	2015.	9	government's expert reports. I don't believe I've
10	Q And who made the decision that you would	10	reviewed expert reports of the claimants.
11	serve as an expert in this case?	11	Q Okay, and this declaration that we have
12	A I don't know.	12	in front of us, the report/declaration, Exhibit 2,
13	Q Now, as part of your preparing your	13	does that document contain all of your opinions
14	expert report and your testimony today, did you	14	and conclusions in this matter?
15	consult with any of the other experts that have	15	A Yes.
16	been I'll use the word "retained" in this	16	Q Having looked at that and having
17	matter by the government?	17	prepared for this deposition, is there anything in
18	MR. DAVENPORT: Objection to the	18	the document, in Exhibit 2, that you wish to
19	form of the question.	19	modify or change or amend in any fashion?
20	You may answer.	20	A No.
21	THE WITNESS: No.	21	Q Okay. Let's move on to your CV which
22	BY MR. WENIK:	22	I've marked as Exhibit 3.
23	Q Have you reviewed, as part of your	23	Is this the most current version of your
24	expert analysis in this case, any of the	24	CV, or has there been a new version with perhaps
25	deposition transcripts of any of the expert	25	different, I don't know, achievements or
	Page 20		Page 21
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	publications or what-have-you since you prepared	2	Q Okay.
3	this one that was attached to your report?	3	Does the CV list all of your
4	A I believe this is the most recent CV	4	professional positions that you've had since you
5	I've prepared.	5	obtained your Ph.D.?
6	Q Okay, and does this CV list all of	6	A Yes.
7	your I'm looking now at page they're not	7	Q All right. When you worked at the
8	numbered, but beginning of the fourth page and	8	Natural Products Association actually, let me
9	going onto the fifth page, you have a section	9	back up.
10	called "Scientific Publications."	10	What's your understanding of what the
11	Does this list all the articles that	11	Natural Products Association is?
12	you've published, this CV?	12	A The Natural Products Association is a
13	A I might have a more recent publication.	13	trade association representing the natural
14	I haven't checked.	14 15	products industry. They represent retailers,
15	Q Okay, and what subject matter might that	1	manufacturers, product manufacturers, and
16	more recent publication be on?	16 17	ingredient suppliers of products such as dietary supplements, cosmetics, home care products and
17	A I believe we've prepared a manuscript,	18	foods.
18 19	the dissertation topic from my grad school work,	19	Q All right. Is it commonly known by the
20	graduate school work.	20	acronym of "NPA"?
21	Q What was that topic? What was your dissertation?	21	A Yes, it is.
		22	Q Are you familiar with an entity NNPA?
	Δ It was on the chemistry and pharmacology		Z 110 Jou minimu with all clittly 11111 A:
22	A It was on the chemistry and pharmacology of kinkeliha a West African medicinal plant. We	l	A I'm not familiar with NNPA
22 23	of kinkeliba, a West African medicinal plant. We	23	A I'm not familiar with NNPA. O Okay.
22		l	A I'm not familiar with NNPA.Q Okay.When you were employed at the Natural

Cara R. Welch, Ph.D. Products Association, did you know an individual anamed Dr. Daniel Fabricant? A Yes. O And how did you come to know Dr. Fabricant? A He hired me. A Yes, I did. O Was Dr. Fabricant responsible for painging you to the FDA in January of 2014? A Yes. O And when you first began with the FDA in January 2014, did you report to Dr. Fabricant? A Yes. O Was Dr. Fabricant responsible for pringing you to the FDA in January of 2014? A Yes. O Was be your direct supervisor, or was there some intermediary between you and him? A Yes, I did. O Was be your direct supervisor, or was there some intermediary between you and him? A T believe he was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in 2010. O By the FDA? A Yes, at 15. O Was he your direct supervisor, or was there some intermediary between you and him? A I believe he was hired in I'm sorry. His current position? O Wes. O Was he FDA? A Yes, at 15. O Was he your direct supervisor, or was there some intermediary between you and him? A I believe he was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. His current position? O Wes. A Two or three years. He was hired in I'm sorry. A Yes. at FDA. O What did he first do at the FDA? A He was a regulatory project manager, I believe is what they call it, for CDER. O What did he first do at the FDA? A No. A Me was a regulatory project manager. I believe is w		Page 22		Page 23
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A He hired me. Q And did you report to him? A Yes, I did. Q Was Dr. Fabricant responsible for bringing you to the FDA in January of 2014? A Yes. Q And when you first began with the FDA in January 2014, did you report to Dr. Fabricant? A Yes. Q Was hey our direct supervisor, or was there some intermediary between you and him? A T believe he was my direct supervisor. Q Okay. Is it true that your husband also works for the FDA? A Yes, it is. Q And in what capacity is he employed with the FDA? A He is a new drug reviewer for the Center Page 24 Cara R. Welch, Ph.D. Exhibit 3? MR. WENIK: I may come back to it. MR. DAVENPORT: Okay. All right. Just for organizational purposes. MR. WENIK: That's all right. D you see that? A Yes. Q All right. Let me drill down a little Natural Products Association. paragraph 8, which is on page 5, and in paragraph Topinions, position papers, and comments in response to regulatory decisions." D you so yes that? A Yes. Q All right. Did you draft, when you were at the NPA, any position papers regarding DMAA? A Yes. Q Did you draft, when you were at the NPA, any position papers regarding DMAA? A Yes. Q Did you draft, when you were at the NPA, any position papers regarding DMAA? A Yes. Q Did you draft any scientific opinions A Yes, was there a level of review separate To do Did you draft any scientific opinions A Yes, was there a very for the EDA? A Yes, is the was a regulatory decist of at the FDA? A He was a regulatory for at the FDA? A He was a regulatory of the there to the was a regulatory of the there wont'n on the dietary subplement side of the FDA? A He was a regulatory decist of the FDA? A No. Q And does he have the same surname, Welch, or does he go by a different professional name? A He goes by Welch. Q All right. So I'm looking an was a very surplement side of the FDA? A No, I don't believe so. Q And did you draft any scientific opinions Topinions, position papers, and comments in response to regulatory decisions." Do you see that? A Yes. Q All right. Let me drill down a lit		-		=
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Page 26 Page 27 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 and scientific opinions? 2 in response to the July 2011 draft new dietary 3 3 ingredient guidance from the FDA. A Yes. 4 Q Who would conduct that review? 4 Q And did you take the position that a 5 synthetic could be a dietary ingredient under 5 A Depending on the nature of the position, 6 if it were purely scientific, it would certainly 6 DSHEA? 7 be reviewed by committees from the Association. 7 Do you understand when I say "DSHEA," I 8 8 We had different committees. One committee in mean Dietary Supplement Health and Education Act? 9 A I understand DSHEA, yes. 9 particular at NPA reviewed my work. It was called ComPLI, Committee on Product Labeling Integrity of 10 The Association's position was synthetic 10 11 regulatory decisions. 11 ingredients should be considered to be dietary 12 If it were a broader position paper, it 12 ingredients. would certainly be reviewed by management, legal, 13 13 Q Has your thinking on that particular topic changed since you've become a member of the likely, and depending on the acceptance of the 14 14 position, it would be reviewed certainly by the 15 15 FDA? board of directors' executive committee and MR. DAVENPORT: Objection to the 16 16 possibly by the entire board of directors. 17 form of the question. 17 18 Q Putting DMAA aside for the moment, did 18 You can answer. 19 you have any role in drafting either a scientific 19 THE WITNESS: To that particular 20 opinion or a position paper for the NPA regarding 20 position, not necessarily. My thinking has synthetic ingredients generally as dietary expanded, but ultimately I still believe 21 21 synthetic ingredients can be dietary 22 supplements? 22 ingredients. A That position -- that topic was part of 23 23 24 our comments, which is not a scientific opinion or 24 BY MR. WENIK: 25 a position paper, but the association's comments 25 Q Let me drill down a little bit more. Page 28 Page 29 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2. 2 perhaps wearing a regulator's hat, would you still So when you were drafting these 3 scientific opinions and you're reviewing the 3 consider yourself a scientist? 4 science and you had these levels of review, before 4 A Yes. 5 5 you would put your name to a document like that, Q All right. So going back to your CV, 6 if you will, what level of evidence did you need 6 which is Exhibit 3, I'm looking at page 2, and I'm 7 looking at the block where you talk about when you 7 to see to issue a scientific opinion? Did it need were a vice president for Scientific and 8 8 to be uncontroverted, did it need to be a 9 consensus, a reasonable degree of scientific 9 Regulatory Affairs for the Natural Products 10 10 certainty, some other standard that perhaps you Association. 11 11 operated under? MR. DAVENPORT: Objection to the 12 Q And in the very last bullet point there, 12 you talk about "integrated communication form of the question. 13 13 14 department with scientific and regulatory 14 You can answer. THE WITNESS: Scientific opinions 15 initiatives to ensure dissemination of information 15 16 need to be based on peer-reviewed published 16 to the membership, response to media inquiries, 17 information. The full methodology, if it 17 and misleading scientific articles." 18 included methodological methods, would need 18 Do you see that? to be clearly laid out for our review. It 19 19 A Yes. 20 didn't need to be incontrovertible, but all 20 Q What is a misleading scientific article? 21 of the evidence would be weighed equally. 21 A The dietary supplement industry has a lot of publications that are -- has a lot of 22 BY MR. WENIK: 22 articles that are published looking at the 23 Q And I guess I should have asked this 23 question much earlier, but would you consider 24 evidence behind the efficacy of their products, 24 25 yourself a scientist? Even though you are now 25 and there are times when the industry believes the

Page 30 Page 31 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2 2 information is misleading, giving the impression hypothesis of some sort? Is that typically the 3 3 the products aren't efficacious, when, in fact, scientific method? 4 they might be, or the information is not yet 4 A Yes. 5 And as a scientist, is the goal of 5 settled one way or the other. Those were often 6 conducting a study to provide evidence that either 6 the types of articles we were responding to. 7 Q How about articles that dealt with 7 proves or disproves that hypothesis? safety; would those be in the same category of, 8 8 A Yes. quote-unquote, "misleading scientific articles" in 9 Q And is it important to you as a 9 addition to ones dealing with efficacy? 10 scientist that the researchers that are conducting 10 A They could be. 11 11 the study to prove or disprove the hypothesis be Q And would it be fair to say that you 12 as free from bias as possible? 12 13 would review these articles with a skeptical eye? 13 A Yes. 14 14 A Yes. Q And is it common in your experience -and you've worked now for a number of years both 15 15 O Let's talk for a moment about the scientific method generally. 16 in the government and in a trade association --16 17 So you mentioned earlier peer review. 17 for peer-reviewed research to be funded by a What is the function of peer review? 18 commercial entity of one sort or another, 18 A A peer review is an assurance that the pharmaceutical company, dietary supplement 19 19 information presented in an article is accepted by 20 company, or what-have-you? 20 21 peers at the level peers would accept. 21 A It is common, yes. 22 Q All right. So when we are talking about 22 Q Does that in and of itself, that a study someone that publishes a peer-reviewed article, a 23 or a research paper is funded by a commercial 23 enterprise of some sort, does that in and of 24 study of one sort or another, is it part of the 24 25 itself, in your opinion as a scientist, detract 25 scientific method that a researcher begins with a Page 32 Page 33 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 from its reliability? 2. BY MR. WENIK: 3 A It's one piece of evidence. 3 Q Sure. Is it inappropriate, in your mind 4 Q And evidence toward what? 4 as a scientist -- and you are here as an expert --5 5 A One piece of evidence toward bias. for the sponsor of a study, be it a government 6 Q Can a study that's funded by a 6 entity or a commercial entity, to comment on the 7 research as it's being conducted by the 7 commercial enterprise be a legitimate study, 8 producing legitimate results? 8 researchers to provide them feedback? A Not necessarily. 9 A Yes. 9 10 O Is it inappropriate for the sponsor of a Q So when an entity -- and some research 10 study, be it a government entity or a commercial 11 sponsored by governmental entities such as the NIH 11 or the FDA, is that common in your experience? 12 12 entity, to provide any editing or comments to a 13 draft of the manuscript that's submitted for 13 A Yes. 14 publication? Is that inappropriate? 14 Q So as part of the scientific method, is 15 MR. DAVENPORT: Objection to the 15 it inappropriate for the sponsor, be it a form of the question. 16 16 government entity or a commercial entity, to comment and give feedback on the research as it's 17 You can answer. 17 18 THE WITNESS: Not necessarily. 18 being conducted? Is that in and of itself inappropriate? 19 BY MR. WENIK: 19 20 Q Is it inappropriate for the sponsor of a 20 MR. DAVENPORT: Objection to the scientific study to ask the researchers to change 21 form of the question. 21 22 their conclusions? 22 You can answer. 23 MR. DAVENPORT: Objection to the 23 THE WITNESS: I apologize. Can you 24 form of the question. 24 repeat the question. 25 You can answer. 25

	Page 34		Page 35
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	THE WITNESS: It would be	2	BY MR. WENIK:
3	inappropriate for the sponsor of a study to	3	Q Would you consider it an act of
4	ask the researchers to change their	4	scientific dishonesty for a researcher to falsify
5	conclusions.	5	the results that are published in a peer-reviewed
6	BY MR. WENIK:	6	paper?
7	Q When a scientist or researcher conducts	7	A Yes.
8	a peer-reviewed piece of research, is it the	8	Q Okay. Turning back to your CV, I'm
9	generally accepted norm in the scientific world	9	looking at page 1, and in the second block, under
10	that they report all of the data that they found,	10	the January 2015 to February 2016 block, I'm
11	including data that goes against their hypothesis?	11	looking at the third bullet point, and you talked
12	A A well-founded study, the results of a	12	about "directed enforcement initiatives with
13	study would provide all of the information that	13 14	CFSAN's Office of Compliance for three violative
14 15	went into that conclusion, both positive and	15	dietary ingredients, resulting in more than 20
16	negative. Q Would you consider it inappropriate, as	16	Warning Letters."
17	a matter of science, for a researcher to exclude	17	Do you see that? A Yes.
18	from the published manuscript only that data that	18	Q All right. So my first question to you
19	contradicted their hypothesis?	19	is: What were the three violative dietary
20	MR. DAVENPORT: Objection to the	20	ingredients that you're referring to there?
21	form of the question.	21	A I believe it would be an ingredient
22	You can answer.	22	called an ingredient FDA refers to as "DMBA."
23	THE WITNESS: It would be	23	I can spell that out if you would like.
24	inappropriate to exclude information that	24	Q I'm familiar with DMBA.
25	went against the hypothesis, yes.	25	A Okay. An ingredient we refer to as
	Page 36		Page 37
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	"BMPEA."	2	time period.
3	Q I'm also familiar with that one. Thank	3	Q All right. So what were your duties
4	you.	4	then as the Dietary Supplement Regulations
5	A And possibly I'm looking at the	5	Implementation team leader? What were you
6 7	dates. I would guess the ingredient picamilon. Q All right. So let me so I guess I	6 7	responsible for in that role? A I was officially a team leader of I
8	first ask you, for the clarity of the record, what	8	believe eight FDA employees. Our work, the work
9	is CFSAN stand for?	9	of these eight employees reviewed CGMP cases,
10	A The Center for Food Safety and Applied	10	reviewed labeling cases, claims cases. They
11	Nutrition.	11	review applications for certificates of free sale.
	r (ddiffion:		
12	O All right.	12	= =
12 13	Q All right. So looking at your CV and let's stick	12 13	They review notifications for structure function
12 13 14	So looking at your CV and let's stick		They review notifications for structure function claims.
13	So looking at your CV and let's stick with the FDA positions for a moment I'm looking	13	They review notifications for structure function
13 14	So looking at your CV and let's stick	13 14	They review notifications for structure function claims. Q All right. In that role did you have an
13 14 15	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to	13 14 15	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing
13 14 15 16	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to February 2016, you were the Dietary Supplement Regulations Implementation team leader. Do you see that?	13 14 15 16 17 18	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing warning letters and seizure actions and the like? A The actions, the compliance and enforcement actions from CFSAN, Center for Food
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13 14 15 16 17 18 19 20 21	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to February 2016, you were the Dietary Supplement Regulations Implementation team leader. Do you see that? A Yes. Q So that position overlapped some of these other positions; is that right?	13 14 15 16 17 18 19 20 21	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing warning letters and seizure actions and the like? A The actions, the compliance and enforcement actions from CFSAN, Center for Food Safety and Applied Nutrition, are worked are spearheaded from the Office of Compliance. We are the experts, the subject matter experts, so the
13 14 15 16 17 18 19 20 21	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to February 2016, you were the Dietary Supplement Regulations Implementation team leader. Do you see that? A Yes. Q So that position overlapped some of these other positions; is that right? A Yes. That was the permanent position I	13 14 15 16 17 18 19 20 21	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing warning letters and seizure actions and the like? A The actions, the compliance and enforcement actions from CFSAN, Center for Food Safety and Applied Nutrition, are worked are spearheaded from the Office of Compliance. We are the experts, the subject matter experts, so the actions often require a support memorandum from
13 14 15 16 17 18 19 20 21 22 23	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to February 2016, you were the Dietary Supplement Regulations Implementation team leader. Do you see that? A Yes. Q So that position overlapped some of these other positions; is that right? A Yes. That was the permanent position I was in.	13 14 15 16 17 18 19 20 21 22 23	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing warning letters and seizure actions and the like? A The actions, the compliance and enforcement actions from CFSAN, Center for Food Safety and Applied Nutrition, are worked are spearheaded from the Office of Compliance. We are the experts, the subject matter experts, so the actions often require a support memorandum from our office, from that team in particular, for
13 14 15 16 17 18 19 20 21	So looking at your CV and let's stick with the FDA positions for a moment I'm looking at page 2, and it says that from September 2014 to February 2016, you were the Dietary Supplement Regulations Implementation team leader. Do you see that? A Yes. Q So that position overlapped some of these other positions; is that right? A Yes. That was the permanent position I	13 14 15 16 17 18 19 20 21	They review notifications for structure function claims. Q All right. In that role did you have an enforcement responsibility as far as issuing warning letters and seizure actions and the like? A The actions, the compliance and enforcement actions from CFSAN, Center for Food Safety and Applied Nutrition, are worked are spearheaded from the Office of Compliance. We are the experts, the subject matter experts, so the actions often require a support memorandum from

	Page 38		Page 39
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	guess I should go through these, not each one.	2	22, 23 employees. I was, I was the director for
3	You also talk about "Regulatory Special	3	both of the principal teams in the division, both
4	Assistant." What was that? You did it from	4	the Regulations Implementation Team and the New
5	January to September of 2014.	5	Dietary Ingredient Review Team. I was in charge
6	A That was the initial position I had at	6	of the medical officer, reviewing adverse event
7	FDA. I was I, I worked on the Regulations	7	reports. I all of that. I led the division.
8	Implementation Team. I was one of the team	8	Q Just so I understand, so when you say
9	members.	9	you directed the enforcement initiatives, so in
10	Q You were one of the subordinates, if you	10	that capacity you're recommending that this other
11	will?	11	entity, the Office of Compliance, take action, or
12	A Yes.	12	is it some other description?
13		13	
	Q Okay, and then you became the acting	14	A It is a process worked out between the
14	deputy division director and eventually acting	15	two groups. We are one "vote" in the matter, so
15	division director of the Division of Dietary		to speak. They are the other. They have to carry
16	Supplement Programs; is that right?	16	out the actions, so they need to have resources in
17	A The dates are actually opposite. So	17	order to carry out the actions. We are the
18	first I was an acting division director from	18	subject matter experts, so we need to have we
19	January 2015	19	need to be able to support the science or the
20	Q Oh, interesting. Okay.	20	regulatory position.
21	A to May 2016, and then I was acting	21	Q So would it be fair to say that your
22	deputy director from May 2015 to February 2016.	22	division as the, quote-unquote, "subject matter
23	Q All right. So what were your duties	23	expert" would identify the areas for the
24	when you were the acting division director?	24	enforcement action?
25	A I led the division. I supervised all	25	MR. DAVENPORT: Objection to the
	Page 40		Page 41
-			
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Cara R. Welch, Ph.D. form of the question.	1 2	Cara R. Welch, Ph.D. Q All right. So I just want to get an
			·
2	form of the question.	2	Q All right. So I just want to get an
2 3	form of the question. You can answer.	2 3	Q All right. So I just want to get an understanding.
2 3 4	form of the question. You can answer. THE WITNESS: Yes.	2 3 4	Q All right. So I just want to get an understanding. So when you came on board in January of
2 3 4 5	form of the question. You can answer. THE WITNESS: Yes. BY MR. WENIK:	2 3 4 5	Q All right. So I just want to get an understanding. So when you came on board in January of 2014 to the FDA, does this reflect, this document,
2 3 4 5 6	form of the question. You can answer. THE WITNESS: Yes. BY MR. WENIK: Q Okay, and now your current position is	2 3 4 5 6	Q All right. So I just want to get an understanding. So when you came on board in January of 2014 to the FDA, does this reflect, this document, Welch Exhibit 4, the structure of the Food & Drug
2 3 4 5 6 7	form of the question. You can answer. THE WITNESS: Yes. BY MR. WENIK: Q Okay, and now your current position is senior advisor, so how have your duties changed,	2 3 4 5 6 7	Q All right. So I just want to get an understanding. So when you came on board in January of 2014 to the FDA, does this reflect, this document, Welch Exhibit 4, the structure of the Food & Drug Administration that existed when you came on board
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form of the question. You can answer. THE WITNESS: Yes. BY MR. WENIK: Q Okay, and now your current position is senior advisor, so how have your duties changed, if at all, as senior advisor? A I am no longer an official supervisor of any employees. I am in a leadership position, supporting our office director with the areas that he needs. So it's a lot of policy review. I often take point on drafting regulatory documents or guidance documents. I still review the CGMP reports that leave our office, that sort of thing. (Exhibit 4 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a document that I marked for identification as Welch Exhibit 4, and as you can see, it was used at a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q All right. So I just want to get an understanding. So when you came on board in January of 2014 to the FDA, does this reflect, this document, Welch Exhibit 4, the structure of the Food & Drug Administration that existed when you came on board in January 2014? A It's specific to the Center for Food Safety and Applied Nutrition, but yes, as I understand it. Q All right. So would you have been part of I'm looking at the bottom right, the Office of Nutrition, Labeling and Dietary Supplements. Would that have been where you were a part of when you came on board? A Yes. That's the office that housed the Division of Dietary Supplement Programs. Q Okay, and my understanding is that has changed very recently in 2016; is that right? The Division of Dietary Supplements is now an office
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	Page 42		Page 43
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	of Nutrition and Food Labeling, which we are no	2	BY MR. WENIK:
3	longer a part of, and then separately the Office	3	Q Has that been an issue within the FDA
4	of Dietary Supplement Programs.	4	for a while, that the resources devoted to dietary
5	Q All right, and these positions that you	5	supplements have been static or limited?
6	have so when you're a senior advisor, are you	6	MR. DAVENPORT: Objection to the
7	still in the Office of Dietary Supplement	7	form of the question.
8	Programs, or are you in some other sub-part of the	8	You can answer.
9	FDA?	9	THE WITNESS: I'm not sure it's my
10	A I'm in the Office of Dietary Supplement	10	place to say that it is a problem. The
11	Programs.	11	number of employees has stayed fairly similar
12	Q All right. So as an office, does the	12	for the last several years.
13	Office of Dietary Supplement Programs now have	13	BY MR. WENIK:
14	increased staff and resources as compared to when	14	Q And has the industry grown in that
15	it was just a lowly division of the Office of	15	period of time?
16	Nutrition and Labeling?	16	A The dietary supplement industry is
17	MR. DAVENPORT: I'm going to object	17	certainly touted to be a constantly growing
18	to the form of the question.	18	industry, so I would assume yes, it has grown,
19	You can answer.	19	while the office or division has retained the same
20	THE WITNESS: I don't believe we	20	number of employees.
21	have any additional resources or employees.	21	Q All right. So when you came on board,
22	We are the same size as the Division of	22	where would Dr. Fabricant have fit in on this
23	Dietary Supplement Programs. We're just a	23	
24	separate office now.	24	organizational chart that I have here as Welch Exhibit 4? Would he have been replacing
25	separate office flow.	25	Mr. Spiller that's listed here or been above
23			ivii. Spiner that's fisted here of been above
	Page 44		Page 45
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Mr. Spiller?	2	or is "GRAS," referring to "generally recognized
3	A Dr. Fabricant was the division director	3	as safe."
4	in the Office of Nutrition, Labeling and Dietary	4	Q Okay. Let me jump ahead for a minute
5	Supplements, so he would not have shown up on this	5	then, being you're talking about that.
6	organizational chart.	6	(Exhibit 5 was marked for
7	Q Okay, all right, and are you familiar	7	identification.)
8	with Dr. Keefe?	8	BY MR. WENIK:
9	A Yes.	9	Q Dr. Welch, I've placed before you a
10	Q And how are you familiar with him?	10	document marked for identification as Welch
11	A He is a colleague at the Center for Food	11	Exhibit 5, which is the expert declaration of
12	Safety and Applied Nutrition.	12	Dr. Keefe.
13	Q All right, and I see him listed on this	13	Have you seen this document before?
14	diagram, Exhibit 4, to the far left in the Office	14	A I have not.
15	of Food Additive Safety; is that right?	15	Q Okay. If you will bear with me for a
16	A Yes.	16	moment, you don't mind to turn to page 4 and look
17	Q Does he still work in that entity of the	17	at paragraph 9 of this document, and Dr. Keefe
18	Food & Drug Administration?	18	wrote in his report that "The purpose of this
19	A As far as I'm aware, yes.	19	Report is to provide my expert opinion that DMAA
20	Q All right. Does Dr. Keefe have any role	20	meets the definition of a 'food additive.'"
21	in any of these enforcement initiatives regarding	21	Do you see that?
22	dietary supplements since you have been at FDA?	22	A I do see that.
		23	Q All right. Are you making any expert
23	A Dr. Keefe? Not necessarily. We do work	I 4.5	
23 24	A Dr. Keefe? Not necessarily. We do work with his office from time to time on establishing		
23 24 25	with his office from time to time on establishing whether an ingredient is an approved food additive	24 25	opinions in this litigation as to whether or not DMAA is a food additive?

	Page 46		Page 47
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	A I am not.	2	A I am familiar with him, though I've
3	Q Okay. So let me just ask, looking back	3	never worked with him.
4	at your CV, so when you were the Dietary	4	Q Okay. How are you familiar with him?
5	Supplement Regulations Implementation Team leader,	5	A When I was at NPA, I had some
6	who was your direct report? Who did you report	6	communications with Dr. Moore. I believe he
7	directly to within the FDA in that role?	7	attended some meetings that we attended at FDA and
8	A I when I was the regulations and	8	had some email communication with him on labeling
9	implementation team leader, I reported to a number	9	topics, I believe. I'm not sure.
10	of acting division directors. We didn't have a	10	Q What was your understanding of his area
11	permanent division director at that time, so I	11	of expertise?
12	reported to do you want me to list the names?	12	A I believe his expertise is dietary
13	Q Please.	13	supplement regulations, claims, labeling. I'm not
14	A I reported to Charlotte Christin. I	14	sure on his expertise with GMPs, but I believe
15	then reported to I believe in October of 2014	15	it's more on claims and labeling and ingredient
16	until January 2015, I reported to Dr. Dan Levy.	16	identity.
17	Q And now as a senior advisor, who do you	17	Q Was he someone that had a good
18	report to?	18	reputation in the industry when you were at the
19	A I report to our office director, Steven	19	NPA?
20	Tave.	20	A I don't know that we ever I don't
21	Q And when you first came on board to the	21	know.
22	FDA, did you report to Dr. Fabricant?	22	Q Okay. All right.
23	A Yes.	23	So going back to your declaration, and
24	Q All right. Were you familiar with	24	I'm looking at paragraph 5 on page 3.
25	someone at the FDA known as Dr. Robert Moore?	25	A Yes.
	Page 48		Page 49
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Q Okay. So you wrote that that you have	2	Cara R. Welch, Ph.D. A In my current role, yes, I would be part
2	Q Okay. So you wrote that that you have "reviewed FDA enforcement actions involving	2 3	Cara R. Welch, Ph.D. A In my current role, yes, I would be part of that conversation.
2 3 4	Q Okay. So you wrote that that you have "reviewed FDA enforcement actions involving dietary supplements to ensure the actions were	2 3 4	Cara R. Welch, Ph.D. A In my current role, yes, I would be part of that conversation. Q Okay, and you said that you have "served
2 3 4 5	Q Okay. So you wrote that that you have "reviewed FDA enforcement actions involving dietary supplements to ensure the actions were supported by sound scientific principles and	2 3 4 5	Cara R. Welch, Ph.D. A In my current role, yes, I would be part of that conversation. Q Okay, and you said that you have "served as the project officer for CFSAN's Cooperative
2 3 4 5 6	Q Okay. So you wrote that that you have "reviewed FDA enforcement actions involving dietary supplements to ensure the actions were supported by sound scientific principles and consistent with FDA policy."	2 3 4 5 6	Cara R. Welch, Ph.D. A In my current role, yes, I would be part of that conversation. Q Okay, and you said that you have "served as the project officer for CFSAN's Cooperative Agreement with the National Center for Natural
2 3 4 5 6 7	Q Okay. So you wrote that that you have "reviewed FDA enforcement actions involving dietary supplements to ensure the actions were supported by sound scientific principles and consistent with FDA policy." Do you see that?	2 3 4 5 6 7	Cara R. Welch, Ph.D. A In my current role, yes, I would be part of that conversation. Q Okay, and you said that you have "served as the project officer for CFSAN's Cooperative Agreement with the National Center for Natural Products Research at the University of
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	Page 50		Page 51
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	bullet point, you talk about the National Center	2	final manuscript when I started in May of 2014.
3	for Natural Products Research at the University of	3	Q And as part of your role in approving
4	Mississippi "directing botanical dietary	4	the \$2.5 million budget, do you have
5	supplement research priorities and managed the	5	communications with Dr. ElSohly of the University
6	\$2.5M budget."	6	of Mississippi?
7	Do you see that?	7	MR. DAVENPORT: Objection to the
8	A Yes.	8	form of the question regarding approving
9	Q Does the 2.5M there stand for two and a	9	budget.
10	half million?	10	You can answer if you're able.
11	A Yes, it does.	11	THE WITNESS: I don't have much
12	Q All right. So when you say both in your	12	conversation with Dr. ElSohly. My
13	expert declaration and in your CV that you're	13	conversations are largely with Dr. Khan and
14	directing the research priorities, does that mean	14	Dr. Chittiboyina, Amar Chittiboyina.
15	that you are telling the Center what areas of	15	BY MR. WENIK:
16	research the FDA would like them to look into?	16	Q All right, and do you have conversations
17	A What do you mean by "center"?	17	with Dr. Khan as to renewing the funding for the
18	Q The National Center for Natural Products	18	Center at the University of Mississippi?
19	Research at the University of Mississippi.	19	A Yes.
20	A To an extent, yes.	20	Q And is it your understanding that the
21	Q Was one of the items, when you came on	21	FDA, through this cooperative agreement, provides
22	board in January 2014, that the natural products	22	the lion's share of the funding for the National
23	research center was looking at DMAA?	23	Center for Natural Products Research at the
24	A I believe so. I believe the research	24	University of Mississippi?
25	was largely finished. They were working on one	25	A I am not aware what percent of their
	Dama F2		
	Page 52		Page 53
1	Page 52	1	Page 53
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Cara R. Welch, Ph.D. total funding we provide. We have provided as	2	Cara R. Welch, Ph.D. than quarterly, meetings.
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1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Dr. Fabricant about the 2012 article that is cited	2	BY MR. WENIK:
3	as reference 15 in your expert report?	3	Q Are you familiar with an entity known as
4	A I don't believe I've ever discussed this	4	ElSohly Laboratories, Inc.?
5	article with Dr. Fabricant.	5	A Yes, I am.
6	Q Did you ever ask anyone at the FDA why	6	Q How are you familiar with that entity?
7	the conclusion section of the article was changed	7	A I believe that is a firm of sorts, a
8	after it was published?	8	laboratory run by Dr. ElSohly at NCNPR. I believe
9	MR. DAVENPORT: Objection to the	9	it's a separate entity.
10	form of the question. Assumes facts.	10	Q Does some of the two and a half million
11	You may answer if you are able.	11	dollar annual funding block go toward work done by
12	THE WITNESS: I am actually not	12	ElSohly Laboratories, Inc.?
13	able to answer this question.	13	MR. DAVENPORT: Objection to the
14	BY MR. WENIK:	14	form of the question.
15	Q Were you aware that the conclusion	15	You may answer.
16	section of the research that resulted in the	16	THE WITNESS: I don't believe so.
17	article that you cite was changed to read "finding	17	BY MR. WENIK:
18	trace amounts of DMAA" to "finding no DMAA"? Were	18	Q How about an entity known as
19	you aware of that change?	19	Phytochemical Services, Inc. or PSI? Are you
20	MR. DAVENPORT: Objection to the	20	familiar with that entity?
21	form of the question.	21	A Not no, I am not familiar with it. I
22	You may answer if able.	22	don't believe I'm familiar with them.
23	THE WITNESS: I was not aware.	23	Q Okay. How about ChromaDex; are you
24	(Whereupon, a short recess was	24	familiar with that entity?
25	taken.)	25	A I am familiar, yes.
	Page 56		Page 57
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Q How are you familiar with ChromaDex?	2	A I'm not aware that I've had contact with
3	A ChromaDex is they may still be. When	3	these particular lawyers you're speaking of.
4	I was at NPA, ChromaDex was a member, and their	4	Q Okay. Amanda Basta; is that a name that
5	principals sat on some committees that I oversaw.	5	you are familiar with?
6	Q Was Dr. Khan one of those principals of	6	A No.
7	ChromaDex?	7	Q Edward Mendelson?
8	A Not that I'm aware of. I don't believe	8	A No.
9	Dr. Khan is an employee of ChromaDex.	9	Q Have you reviewed any of the expert
10	Q Do you know whether Dr. Khan is a	10	reports that have been prepared in the FTC
11	significant shareholder of ChromaDex?	11	litigation involving Hi-Tech Pharmaceuticals?
12 13	A I have no knowledge of this.	12 13	A No, I have not.
	Q Does ChromaDex perform any work that is	13	Q Okay.
14 15	funded by this FDA block of funding to the National Center for Natural Products Research or	14	So I want to talk a little bit about the
	National Center for Natural Products Research or NCNPR?	16	scope of your expert opinions that you're
16 17		17	rendering here. I want to make sure I have a very
18	A No. ChromaDex isn't part of that cooperative agreement.	18	clear understanding of the limits. So the first question to you is: Are
19	Q Okay.	19	you offering any expert opinion as to whether or
20	Have you had any discussions or contact	20	not DMAA is contained in geraniums?
21	with any of the and I'm not asking you for the	21	A I am not offering an expert opinion on
22	substance of the question. I just want to know if	22	that.
23	you've had contact with any of the lawyers for the	23	Q Are you offering any expert opinion as
24	Federal Trade Commission that are litigating	24	to the composition or chemical nature of any of
25	currently against Hi-Tech Pharmaceuticals.	25	the items that have been seized in this
	, ,	l	

	Page 58		Page 59
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	litigation?	2	we can remove dietary ingredients or dietary
3	A No.	3	supplements from the market.
4	Q Are you offering any opinions as to the	4	Q Is that what happened with ephedra?
5	safety of DMAA?	5	A We did a rulemaking for ephedrine
6	A No.	6	alkaloids, stating they adulterate dietary
7	Q Are you offering any opinions as to the	7	supplements because they present a significant or
8	efficacy of DMAA, be it for weight loss or	8	unreasonable risk of illness or injury.
9	workouts or anything?	9	Q So would rulemaking be one of the to
10	A No.	10	use your phrase "methods and processes
11	Q Okay.	11	available to the FDA to regulate a dietary
12	So turning back to your expert report or	12	supplement"?
13	declaration, in paragraphs 3 and 11 you state that	13	A Yes.
14	the purpose of your report is to "provide my	14	Q And with regard to ephedra, what exactly
15	expert opinion about the methods and processes	15	did that rulemaking entail? What did the FDA do?
16	available to and used by FDA to regulate dietary	16	A I was not an employee of FDA at that
17	supplements," and you say the same exact thing at	17	time, but we did a rulemaking to state that
18	paragraph 11.	18	ephedrine alkaloids, not all ephedra, just the
19	Do you see that?	19	ephedrine alkaloids, present a significant or
20	A I do.	20	unreasonable risk of illness or injury.
21	Q So is one of the methods and processes	21	Therefore, a dietary supplement containing
22	available to the FDA to regulate dietary	22	ephedrine alkaloids is considered adulterated.
23	supplements a ban of a dietary ingredient or	23	Q Was the rulemaking published in the
24	supplement?	24 25	Federal Register?
25	A I wouldn't use the word "ban," but yes,	<u>4</u> 5	A Yes, it was.
	Page 60		Page 61
1	C D W 1 1 DI D		
	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Cara R. Welch, Ph.D. Q Was public comment solicited?	1 2	Cara R. Welch, Ph.D. dietary ingredient. If it were a dietary
			·
2	Q Was public comment solicited?	2	dietary ingredient. If it were a dietary
2 3	 Q Was public comment solicited? A Yes, it was. Q Could the same process that was used with ephedrine alkaloids be employed with regard 	2 3 4 5	dietary ingredient. If it were a dietary ingredient, rulemaking is one of many methods that could be used to regulate products containing it. Q Okay. So when we're talking about
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Page 62 Page 63 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 2 We could move to administrative actions. how quickly we take action, so there are a number 3 3 We can administratively detain adulterated or of factors that come into play. 4 misbranded food. Or we can move to judicial 4 Q Okay. So as an expert, and you claim to 5 5 be an expert in the methods and processes to actions, including injunction or seizure, injunction of the firm to produce the product, or 6 regulate dietary supplements, is it an appropriate 6 7 7 seizure of the actual products. factor to consider whether you like or dislike the 8 O And what factors play into the 8 owner of the company that produces the product in 9 decision-making process as to which of these 9 question? alternatives to employ, the warning letter versus 10 10 A I would not say one person's opinion of 11 the administrative procedure versus the judicial 11 another person weighs into what action FDA as an 12 agency is taking. 12 action? 13 13 O Is it your expert opinion that the A There are a number of factors that play factors are limited to the safety of the product? 14 in. FDA is a public health agency, so the safety 14 15 factor of the ingredient and the products of 15 Is that what drives the decision? 16 commerce would certainly weigh in. We would 16 MR. DAVENPORT: Objection to the 17 evaluate what is publicly known about a product or 17 form of the question. Mischaracterizes her 18 an ingredient. If we have stated in the past that 18 prior testimony. 19 it is not a dietary ingredient and, therefore, 19 BY MR. WENIK: 20 products listing it as a dietary ingredient are 20 Q Do you want me to rephrase, or do you 21 misbranded and the firms continue to disregard our 21 feel able to answer the question? 22 notice, then we may move on to either 22 A Can you rephrase? 23 administratively detaining or seizing the 23 O Sure. 24 products. 24 The factors that you described, are they 25 25 solely focused on the nature of the product at The safety of the product weighs into Page 64 Page 65 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2 2 issue? Q Would you agree with me that it would be 3 MR. DAVENPORT: Objection to the 3 inappropriate to take action against a product 4 form of the question. 4 based on the fact that the majority of the 5 5 You can answer if you're able. management of the entity is African-American? 6 THE WITNESS: I wouldn't say it is 6 A To repeat my answer before, FDA doesn't 7 7 solely on the nature of the product. It is keep information on the ethnic composition, for 8 largely on the nature of the product. 8 lack of a better word, of firms producing a 9 BY MR. WENIK: 9 product, so it wouldn't weigh into our factor, 10 Q Does the ownership of the company that 10 because we don't know this information. 11 produces the product factor into your 11 Q Did you have any conversations with the 12 decision-making? 12 inspectors that conducted the seizures at the A I would not say the ownership of the 13 Georgia facilities of Hi-Tech Pharmaceuticals? 13 product factors in, because that implies a A I don't believe I had any conversations 14 14 particular person. The firm and firm history may 15 15 with the investigators. 16 weigh in, but not necessarily. 16 Q Are you aware of any comments by the Q Should the ethnic composition of the investigators as to the ethnic makeup of the 17 17 workforce of the product -- let me rephrase that. 18 18 workforce at Hi-Tech Pharmaceuticals? 19 Should the ethnic composition of the 19 A I am not aware of any comments by the workforce of the company that produces the product 20 20 investigators or any position they have on the 21 be a factor in your decision as to whether to take 21 ethnic makeup of the firm you speak of. action against that product? Q Would it be appropriate, in your mind, 22 2.2 to have it weigh in in any way, shape or form on A FDA does not have statistics on the 23 23 24 ethnic composition of firms producing a particular 24 the enforcement action, the ethnic makeup of the 25 product, so that does not weigh into account. 25 workforce that produces a product subject to FDA

Page 66 Page 67 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 2 regulation? regular work of ODSP to regulate dietary 3 3 supplements includes, but is not limited to," and MR. DAVENPORT: Objection to the 4 form of the question. It's been asked and 4 you list various items here, including 5 "investigating potentially problematic dietary 5 answered. 6 You may answer again. 6 supplement ingredients." THE WITNESS: I would repeat my 7 So what do you mean by "potentially 7 8 8 problematic dietary supplement ingredients"? answer that FDA does not have statistics or 9 9 A I'm using that phrase to cover many information on the ethnic makeup of any 10 10 potential regulatory issues FDA may have with an particular firm, so it does not weigh into ingredient. Our office evaluates ingredients 11 our decision. 11 12 based on whether they fit the statutory definition 12 BY MR. WENIK: 13 O Okay. So I'm looking at paragraph 15 of 13 of a dietary ingredient, whether they are properly 14 your expert report, which is Welch Exhibit 2, and 14 tested, properly manufactured, if the products -you talk about "the regular work of ODSP to 15 whether they are safe, whether the product, 15 16 regulate diet supplements includes." 16 including that ingredient, the product of So I guess first, for the record, I 17 17 commerce, is safe. should ask you: What does "ODSP" stand for? 18 18 O Now, in paragraph 13 of your A It stands for the Office of Dietary 19 19 declaration, you quote the statutory definition of what a dietary ingredient is; is that right? 20 Supplement Programs. 20 2.1 Q And that was an entity that you've held 2.1 A Yes. 22 positions with at the FDA; is that correct? 22 Q Okay. So looking at that paragraph and 23 A That is the office that I am currently a 23 compared to what we just looked at in paragraph 15, is it fair to say that you can have a 24 24 member of. substance that meets the definition of a dietary 25 Q All right, and you wrote that "the 25 Page 68 Page 69 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2. 2 dietary supplement. That is one method the ingredient, but for one reason or another it is 3 still problematic in some fashion? 3 industry is responsible for doing. 4 A Yes. Dietary ingredients can be 4 If we find a dietary ingredient is a new problematic in one fashion or another. 5 dietary ingredient, and a notification should have 5 6 6 O And so a dietary ingredient that is been submitted but was not, that product is 7 7 problematic, you would take some sort of adulterated according to section 402(f) of the Act. I'm referring specifically to section 8 regulatory action against that ingredient; is that 8 9 right? 9 413(a)(2) of the Act. 10 10 A It depends what level of problem is at That's the result of the dietary 11 ingredient. The methods or processes which would 11 issue. bring it to the attention of the firm would be Q All right. So for something that meets 12 12 the definition of a dietary ingredient yet similar to products that contain ingredients that 13 13 presents a problem, in your expert opinion of the 14 aren't dietary ingredients. So if the product is 14 methods and processes available to take action, 15 adulterated, if it's adulterated because it's a 15 16 what are the different tools available to you to 16 new dietary ingredient or if it's adulterated take action against a dietary ingredient that 17 17 because it presents a significant or unreasonable presents an issue as opposed to what you've 18 risk of illness or injury, or if it is -- there's 18 19 described before as to something that may not be a 19 also sections 402(f)(1), (f)(1)(C) and (f)(1)(D)20 dietary ingredient? 20 of the Act, referring specifically to dietary 21 A Dietary ingredients have -- a dietary 21 supplements containing dietary ingredients. ingredient, if it is a new dietary ingredient, So those adulteration provisions are at 22 2.2 23 would have to go through the -- would likely have 23 our disposal. If we decide that a product 24 to go through the new dietary ingredient 24 containing a dietary ingredient is adulterated, we notification process prior to being marketed in a 25 25 would go through the same decision processes as

Page 70 Page 71 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2 2 before, bringing it to the attention of the firms defined under the statute? 3 3 in question, either through -- likely through a A It is. 4 warning letter, an advisory action. Depending on 4 Q All right. So in this instance, what the result, how the firm takes that position, we 5 5 was the thought process as to why caffeine, which 6 could administratively detain the products or 6 is already a dietary ingredient, needs a warning 7 seize the products or enjoin the firm. 7 letter? 8 Q All right. So let me just show you 8 MR. DAVENPORT: Objection to the --9 something here. correction. I'll object. You're calling for 9 deliberative process. 10 (Exhibit 6 was marked for 10 11 identification.) 11 MR. WENIK: You're correct. Let me 12 BY MR. WENIK: 12 rephrase that. O Dr. Welch, I've placed before you a 13 13 BY MR. WENIK: document I've marked for identification as Welch 14 14 Q So is this warning letter an example of Exhibit 6, which, for the record, is an FDA 15 15 an instance where there is a dietary ingredient warning letter that I printed off of the FDA 16 that meets the definition, yet, nevertheless, the 16 17 website, and it pertains to caffeine. 17 FDA takes some action against it? Have you seen this document before? 18 18 A Yes. A I have seen the warning letter before. 19 19 Q And in this instance, looking at the 20 I have not seen this exact document before. 20 warning letter, is this a safety concern that 2.1 Q All right. So were you involved with 21 prompted the warning letter? 22 the decision-making process to sending out the A This warning letter is stating that the 22 product in question, Caffeine Anhydrous 400 Grams 23 warning letters regarding caffeine? 23 24 A I was. product, presents a significant or unreasonable 24 25 Q And is caffeine a dietary ingredient as 25 risk of illness or injury under the conditions of Page 72 Page 73 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2. use recommended or suggested in the labeling. So 2 involve the safety or create any unreasonable 3 yes, it is a safety concern. 3 risk? 4 Q Is there, in your expert opinion, a 4 A Not always. premarket approval requirement by the FDA for 5 5 Q So under DSHEA, it's not your opinion 6 dietary supplements that include dietary 6 that the burden is on the FDA to demonstrate a ingredients that meet the statutory definition? 7 7 product is unsafe before moving it from the 8 A I'm sorry. Can you repeat the question? 8 marketplace if it contains only dietary 9 9 ingredients that meet the statutory definition? A The definition of "dietary supplement" 10 For a product that contains a dietary 10 ingredient that meets the statutory definition 11 involves more than just containing dietary 11 12 that you set out in paragraph 13 of your report, 12 ingredients. However, if FDA is removing a does that product need premarket approval by the product, stating a product is adulterated 13 13 FDA before it can be marketed? according to safety concerns, again, the burden is 14 14 15 on FDA to demonstrate a product is adulterated. 15 A No. 16 Q If a product contains dietary 16 Q All right. So in paragraph 3 and 11, ingredients that meet the definition of dietary you state that it's your expert opinion that DMAA 17 17 ingredient as you define in paragraph 13 of your does not qualify as a dietary ingredient as 18 18 report, is the burden on the FDA to show that the 19 defined in 21 U.S. Code 321(ff) or basically as 19 20 product presents an unreasonable risk of harm or 20 defined in paragraph 13 of your report, and you 21 is unsafe in some manner? 21 say that again in paragraph 11. A If a dietary supplement containing 2.2 Is that opinion a scientific opinion or 2.2 23 dietary ingredients is marketed, the burden is on 23 a regulatory opinion? FDA to demonstrate the product is adulterated. 24 24 MR. DAVENPORT: Objection to the O And does demonstrating it's adulterated form of the question. Counsel, when she 25 25

	Page 74		Page 75
1		1	
2	Cara R. Welch, Ph.D.	1 2	Cara R. Welch, Ph.D.
3	cites to 321(ff), that's 321(ff(1)(A),(B, (C,	3	paragraph 13 of your report, and you actually list word for word in Section 321 21 U.S. Code
4	(D, (E). MR. WENIK: Fair enough.	4	321(ff), all right, and your opinion only goes
5	MR. DAVENPORT: And we agreed	5	through subsection (A) through (E) and not (F); is
6	that's not the entire section of 321(ff), and	6	that correct? Your expert opinion?
7	I want to make sure that's clear.	7	A That is correct. My expert report
8	MR. WENIK: Okay.	8	covers 21 U.S.C. 321(ff)(1)(A) through (E).
9	THE WITNESS: My expert report is	9	Q Okay. All right. So let me turn your
10	based on a scientific evaluation of the	10	attention to paragraph 17 of your report.
11	evidence available to my review, stating or	11	By the way, let me ask you another
12	concluding that DMAA does not qualify as one	12	couple preparatory questions.
13	of the dietary ingredients enumerated in, as	13	Do you have any legal training? Did you
14	Josh just stated, Section 21 U.S. Code	14	attend any law school classes of any sort or
15	321(ff)(1)(A) through (E). I did not weigh	15	anything like that?
16	an opinion on (F).	16	A I have not.
17	BY MR. WENIK:	17	Q Okay. You have no degrees in law, I
18	Q Okay. Do you make that opinion as a	18	assume; is that right?
19	matter of science or as a matter of law, or is it	19	A I have no degrees in law.
20	a combination?	20	Q Look at paragraph 17 of Exhibit 2, which
21	A I would say largely as a matter of	21	is your report.
22	science, I looked at the structure of DMAA and	22	MR. DAVENPORT: Hold on. Are we
23	whether it fits into vitamin, mineral, herbal or	23	done with
24	botanical amino acid or dietary substance.	24	MR. WENIK: Yeah, we're done with
25	Q So just so we're all clear, looking at	25	them.
	Daga 76		
	Page 76		Page 77
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Cara R. Welch, Ph.D. (Discussion was held off the	2	Cara R. Welch, Ph.D. the two phrases interchangeable?
2	Cara R. Welch, Ph.D. (Discussion was held off the record.)	2 3	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to
2 3 4	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK:	2 3 4	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing.
2 3 4 5	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all	2 3 4 5	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying
2 3 4 5 6	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all the originals to her so she can have the	2 3 4 5 6	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying it's organic. Does organic compounds include
2 3 4 5 6 7	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all the originals to her so she can have the spellings, and you'll have an opportunity to read	2 3 4 5 6 7	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying it's organic. Does organic compounds include plants?
2 3 4 5 6 7 8	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all the originals to her so she can have the spellings, and you'll have an opportunity to read and sign the transcript if there's any typos or	2 3 4 5 6 7 8	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying it's organic. Does organic compounds include plants? A A plant is not a single compound, so no.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all the originals to her so she can have the spellings, and you'll have an opportunity to read and sign the transcript if there's any typos or improperly transcribed. A Okay. Q In paragraph 17 you talk about DMAA not being a vitamin, and in the last line on page 8, paragraph 17, you say "DMAA is an organic substance." What do you mean by an "organic substance"? A It is composed of carbon compounds, carbon hydrogen, and oxygen and nitrogen for DMAA's purposes. Q In paragraph 18 in the middle of the paragraph, you refer to DMAA as an "organic compound." Is there a distinction between what you mean when you call something an "organic	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying it's organic. Does organic compounds include plants? A A plant is not a single compound, so no. Q Does a plant include multiple organic compounds? A Yes. Q Can a constituent of a plant be a dietary ingredient? A Yes. Q Can a constituent of a botanical be a dietary ingredient? A Yes. Q Can an extract of a botanical be a dietary ingredient? A Yes, according to section 201(ff)(1)(F). Q Can an extract of a plant be a dietary ingredient? A Yes, according to that same section, (F).
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Cara R. Welch, Ph.D. (Discussion was held off the record.) BY MR. WENIK: Q By the way, at the end we'll give all the originals to her so she can have the spellings, and you'll have an opportunity to read and sign the transcript if there's any typos or improperly transcribed. A Okay. Q In paragraph 17 you talk about DMAA not being a vitamin, and in the last line on page 8, paragraph 17, you say "DMAA is an organic substance." What do you mean by an "organic substance"? A It is composed of carbon compounds, carbon hydrogen, and oxygen and nitrogen for DMAA's purposes. Q In paragraph 18 in the middle of the paragraph, you refer to DMAA as an "organic compound." Is there a distinction between what you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Cara R. Welch, Ph.D. the two phrases interchangeable? A I use them interchangeably. I refer to the same thing. Q Okay, so when you say you're saying it's organic. Does organic compounds include plants? A A plant is not a single compound, so no. Q Does a plant include multiple organic compounds? A Yes. Q Can a constituent of a plant be a dietary ingredient? A Yes. Q Can a constituent of a botanical be a dietary ingredient? A Yes. Q Can an extract of a botanical be a dietary ingredient? A Yes, according to section 201(ff)(1)(F). Q Can an extract of a plant be a dietary ingredient? A Yes, according to that same section,

Page 78 Page 79 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 A Geranium would be considered an herb or 2 a document I've marked for identification as Welch 3 3 other botanical, so yes, it would be a dietary Exhibit 7, which is the government's amended 4 ingredient under Section 201(ff)(1)(C) of the Act. 4 complaint in this action. 5 5 Q And would a constituent of a geranium be Is this what you were referring to, I 6 a dietary ingredient? 6 take it, in your materials reviewed, the amended 7 A Yes, the constituent -- a constituent of 7 complaint? 8 a geranium would be considered a dietary 8 A Yes. 9 ingredient according to Section 201(ff)(1)(F) of Q So I'd just like to direct your 9 10 10 attention to paragraphs 22, 23 and 24, and if you the Act. Q Would an extract of a geranium be a 11 11 could take a moment just to read those to dietary ingredient? 12 12 yourself, then I'm going to ask you a couple of 13 A Yes, an extract of a geranium would be a 13 quick questions. 14 dietary ingredient according to Section (Witness peruses document.) 14 15 201(ff)(1)(F) of the Act. THE WITNESS: I've read 22, 23, and 15 16 Q All right. In your expert report you 16 24. have a "Materials Reviewed" section on page 14, 17 17 BY MR. WENIK: and you talk about that one of the things you have 18 18 Q So would you agree with me that reviewed was the amended complaint, which I want 19 19 paragraphs 22, 23 and 24 discuss alleged instances to show you and ask you a couple of quick 20 20 where the defendant, Hi-Tech, purportedly 21 questions about. mislabeled the product as containing DMAA when it 21 (Exhibit 7 was marked for 22 22 did not? 23 identification.) 23 A Yes, it seems to be. 24 BY MR. WENIK: 24 Q Okay. My only question to you is: Are 25 Q So, Dr. Welch, I have placed before you 25 you offering any expert opinions in this case on Page 80 Page 81 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2 2 Q Okay. So what did you do to determine this subject matter, as to whether or not products 3 that are labeled as having DMAA in them are 3 the accuracy of the database searches that were 4 misbranded because they do not, or adulterated 4 conducted to buttress your expert opinion? because they do not have DMAA? Are you offering 5 A I reviewed the memorandum they put 5 6 any expert opinions on this topic? 6 together for me, ODSP staff. It included some 7 7 A I am not offering any expert opinion on screenshots of the databases, the database search 8 8 that. result. 9 Q Thank you. Okay. 9 Q And the staff that conducted these 10 So turning back to your expert report, database searches, what were their qualifications? 10 11 I'm looking at paragraph 22, which is on page 11. 11 Were they scientists, student interns, clerks? 12 You wrote that "To determine whether 12 Who were they? there is any history of DMAA's use in food which 13 A The September 2016 search was conducted 13 could qualify DMAA as a dietary substance for use 14 by a botanist and a chemist, both FDA employees. 14 Q All right, and you list in paragraph 22 15 by man to supplement the diet by increasing the 15 total dietary intake, ODSP staff, acting under my 16 16 the search terms that were used; is that right? 17 direction, conducted a search in September 2016 of 17 A Yes. 18 food databases and published scientific 18 Q Who selected those search terms? 19 A They are the same search terms that were 19 literature." the subject of the previous versions of these 20 Do you see that? 20 21 21 database searches in December of 2015 and sometime A I do. 22 Q Okay. So my understanding in reading 22 in 2011. that is that you did not personally conduct any 23 23 Q Was any consideration given to expanding database searches in this matter; is that right? 24 the universe of search terms for purposes of your 24 25 A Correct. 25 expert report?

	Page 82		Page 83
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	A There was no need to expand the search	2	A I don't know who. They are the
3	terms. That's a pretty sufficient list, complete	3	databases the NDI review team, the New Dietary
4	list of the nomenclature for DMAA the compound.	4	Ingredient review team typically search to
5	Q Geraniums or any synonym for the term	5	determine whether an ingredient is a substance of
6	geraniums were not part of these database	6	a diet.
7	searches, were they?	7	Q In paragraph 23 you describe scientific
8	A No.	8	database search of PubMed; is that right?
9	Q Why not? Why didn't you search for	9	A Yes.
10	geraniums or any name that's a synonym for the	10	Q Okay, and like the database search that
11	geranium plant?	11	you describe in paragraph 22, you did not
12	A We were looking to determine whether	12	personally conduct that database search that you
13	DMAA, a chemical compound, was a substance of the	13	describe in paragraph 23; is that correct?
14	diet, not whether geranium was the substance of	14	A Correct. I did not.
15	the diet.	15	Q What did you do to ensure that that
16	Q Did anyone conduct a database search for	16	database search was accurate?
17	geraniums or any synonym for that term presented	17	A I reviewed the memo that ODSP staff
18	to you, but you did not include it in your report?	18	prepared for me. It included a listing of the
19	A There were no database searches for	19	results, the 51, 3 and 15 publications that were a
20	geranium presented to me for this report.	20	result of the PubMed search. It was a listing of
21	Q Okay. Then you talk about the databases	21	the article names.
22	that were searched in the balance of paragraph 22.	22	Q My reading of this paragraph is that
23	Do you see that?	23	these search results, the 51, 3 and 15
24	A I do.	24	publications that were identified as a result of
25	Q Who selected those databases?	25	the search, that you did not actually review those
	Page 84		D 0 F
	5		Page 85
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
1 2		1 2	
	Cara R. Welch, Ph.D.		Cara R. Welch, Ph.D. A Correct. Q Okay, and similar to the database search
2	Cara R. Welch, Ph.D. publications; is that right? That's how I read	2 3 4	Cara R. Welch, Ph.D. A Correct. Q Okay, and similar to the database search you did and describe in paragraph 22, I don't see
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2 3 4	Cara R. Welch, Ph.D. publications; is that right? That's how I read this. Is that correct? A Correct. I did not review all 51, 3 and 15 publications. I didn't read through all the publications.	2 3 4 5 6	Cara R. Welch, Ph.D. A Correct. Q Okay, and similar to the database search you did and describe in paragraph 22, I don't see
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	Page 86		Page 87
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	(Exhibit 8 was marked for	2	it lists the search terms that were used for some
3	identification.)	3	database searches; is that right?
4	BY MR. WENIK:	4	A Yes.
5	Q Okay. So, Dr. Welch, I have placed	5	Q All right, and are these the same let
6	before you a document I marked for identification	6	me actually cross-check it. I'll take the
7	as Welch Exhibit 8, which, for the record, is a	7	opportunity now.
8	November 1, 2011 memorandum by Louis Carlacci to	8	Are these terms basically the same that
9	Dan Fabricant, amongst others, and you had	9	you describe in paragraph 22 of your expert
10	mentioned earlier when we were talking about the	10	declaration?
11	database searches that there was some memorandum,	11	A My expert report searches more terms
12	and I think you referred to one from 2011, one	12	than are listed here. It also includes DMAA,
13	from 2015, and one from 2016.	13	1,3-dimethylamylamine, and dimethylamylamine.
14	A Yes.	14	Q So for purposes of your report, you had
15	Q Is this the 2011 memorandum that you	15	the search terms expanded somewhat from what was
16	were referring to?	16	done back in 2011?
17	A Yes, this is.	17	A Seems to be, yes.
18	Q Let me ask you a couple of questions	18	Q Okay, but again, looking back at 2011,
19	about this.	19	we don't see anything here for geraniums or any
20	So what is your understanding of what	20	synonym for geraniums, do we?
21	the purpose of this document was that was prepared	21	A It doesn't seem to be, no.
22	in November of 2011?	22	Q Okay. Let's turn to the second page.
23	A The purpose of this memo was a review of	23	So my understanding of reading this, if
24	DMAA and whether it fits as a dietary ingredient.	24	you look at the very bottom of the first page, it
25	Q Okay, and if we look at the first page,	25	says "databases," and that was searched, and then
	Page 88		Page 89
			rage 07
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
1 2	Cara R. Welch, Ph.D. we have these listed here on page 2.	2	Cara R. Welch, Ph.D. database, it says "NNFA," and it says, "NNFA List
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1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	AGRICOLA USDA, GRAS, PAFA, OFAS, EAFUS, these are	2	that were used.
3	government databases?	3	Are these all the same as what you list
4	A Yes, they are.	4	in paragraph 22 of your declaration?
5	Q Okay.	5	A Yes, it appears to be the same.
6	(Exhibit 9 was marked for	6	Q Okay. What is your understanding of
7	identification.)	7	what the purpose let me back up for a minute.
8	BY MR. WENIK:	8	Did you direct that this database search
9	Q Doctor, I have placed before you a	9	take place in December of 2015?
10	document that I've marked for identification as	10	A I did.
11	Welch Exhibit 9, which, for the record, is a	11	Q And what was the purpose of your having
12	memorandum dated December 31, 2015 from Rebecca	12	this database search done in 2015?
13	Allen to you.	13	A In preparation of my expert report, I
14	My first question is: Do you recognize	14	wanted to have an updated search of the food
15	this document?	15	databases, particularly to ascertain if DMAA is a
16	A I do.	16	component of the diet, so I asked two staff
17	Q And is this the memorandum that you	17	members, Rebecca Allen and Steven Casper, to do an
18	referred to earlier when you said that there were	18	updated search.
19	three iterations, if you will, one from 2011, one	19	Q So if I compare Welch Exhibit 9 to the
20	from 2015, and one from 2016 of these database	20	2011 document which I labeled as Welch Exhibit 8,
21	searches? Is this the 2015 one you were talking	21	and Welch Exhibit 9 lists the databases that were
22	about?	22	searched on page 1, continuing on to page 2, and
23	A It is.	23	notably it does not list any of the dietary
24	Q Okay, and so if we look at this	24	supplement databases that were searched back in
25	document, it lists on the first page the key words	25	2011, specifically to Herbs of Commerce or the
			, 1
	Page 92		Page 93
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	predecessor to the NPA or to CRN, why was that?	2	A typical search.
3	Why were the dietary supplement databases not	3	Q I see.
4	searched in 2015 when you directed this update to	4	Is there any reason why in 2015 you
5	be prepared?	5	didn't search any non-governmental databases, any
5 6	A The point of the December 2015 memo is	6	didn't search any non-governmental databases, any commercial websites of any sort?
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Page 94 Page 95 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 of what this document is? 2 Q Okay, but I take it DMAA did not come 3 3 up. Is that what the people that looked at this A This memo is an update to the 4 December 2015 memo. As I was finalizing my expert 4 concluded? report, I wanted to ensure we had done a more 5 5 A It looks like they had some hits for 6 recent review, since nine, ten months had gone by. 6 labels containing some of the search terms. Those 7 7 Q And the search terms remained the same would have been dietary supplement labels, which 8 does not weigh into whether an ingredient is a 8 as they were in December 2015? 9 9 A Yes, they appear to be. component of the conventional food diet. Q And were the databases the same as well? 10 10 O I see. 11 A According to the memo, the September 26 11 So what would you have been looking for 12 memo searches the dietary supplement label 12 in these database searches to establish that database by NIH, whereas the December 2015 memo 13 something was a component of the conventional food 13 searches the dietary supplement ingredient diet? If you're not looking for a recipe, if 14 14 database, which is actually separate, because they you're not looking at a cooking website, if you're 15 15 are two different databases. not looking at natural products or commercial 16 16 17 Q And were any hits derived from that 17 websites, what is it that you expect to find? 18 A Some of the databases, GRAS substances. 18 label database? A The September 2016 memo, there are 19 the PAFA, EAFUS, are databases or lists of 19 20 results from the dietary supplement label database 20 ingredients that are known to be in foods. Some of them -- the AGRICOLA is looking for foods that 21 21 list certain ingredients. A plant database would 22 Q And where would those appear in the body 22 be looking to see if a plant is known to be used 23 23 of the memo here? 24 A They don't appear to be in the body of 24 in the food diet. The USP or the food chemicals 25 25 Codex is a list of chemicals found in foods. the memo. Page 96 Page 97 1 1 Cara R. Welch. Ph.D. Cara R. Welch, Ph.D. So we're looking for information that 2 2 not a food ingredient." 3 DMAA, the particular chemical compound, is used in 3 Do you see that sentence? 4 foods. 4 A I do. 5 5 Q I see. Q All right. So what do you mean by "food ingredient"? Is that something different than a 6 6 So I just want to make sure I understand 7 7 the scope of your opinion. dietary ingredient? 8 Are you offering an expert opinion based 8 A Yes. A conventional food ingredient is 9 on what we see here, that DMAA was not in the food 9 one provision of a dietary ingredient. Paragraph 13, I think it was, listed out what can be a supply prior to October 15, 1994? 10 10 11 A I am offering an opinion that DMAA is 11 dietary ingredient. "Generally a dietary 12 not a substance of the diet, referring to the 12 substance for use by man to supplement the diet by conventional food diet, not limited to a date of 13 increasing the total dietary intake. If an 13 14 ingredient is a food ingredient, it will likely 14 October 15, 1994. Q So never part of the --15 fit under category E of the dietary ingredient." 15 16 A DMAA, according to my research, the 16 Q All right, and so basically, if I evidence for my review, DMAA has never been a understand what you're saying, it's your expert 17 17 opinion that DMAA does not meet subsection component of the conventional food diet. 18 18 Q All right, and I'm looking back at your 19 19 321(ff)(1)(E)? expert report, and on page 12, the very last 20 20 A Correct. That's my opinion. 21 sentence, I want to make sure I understand exactly 21 Q All right, and the basis for that 22 what you mean in this sentence. 22 opinion, if I understand what you're saying here, You say, "The food database searches 23 23 are these database searches that are reflected in 24 revealed no results for the compound DMAA, which 24 Welch Exhibits 10, 9 and 8? 25 provides the basis for our conclusion that DMAA is 25 A Yes.

	Page 98		Page 99
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	(Exhibit 11 was marked for	2	A Yes.
3	identification.)	3	Q All right. I placed before you what
4	BY MR. WENIK:	4	I've marked for identification as Welch Exhibit
5	Q Okay. So let me for a moment focus your	5	11, which is the e-published version of this
6	attention back on Exhibit 9.	6	article that came out in 2014.
7	A Yes.	7	My question to you is: Did you review
8	Q And in Exhibit 9, the memo, one of the	8	the e-published version of the article in
9	articles that was found, if you look at the next	9	conjunction with preparing your expert report in
10	to the last page of the document	10	this matter as opposed to the version that came
11	A Oh, sorry. Next to the last.	11	out in 2015?
12	Q Yeah.	12	A I don't recall at this time.
13	A Yes.	13	Q Okay. So you came on board at the FDA
14	Q All right. If you look at reference	14	in January of 2014; is that right?
15	number 7 here, "methylhexaneamine is not	15	A Yes.
16	detectable in Pelargonium or geranium species and	16	Q All right, and is it fair to say that
17	their essential oils, a multi-center	17	one of your responsibilities in that first year
18	investigation," and it lists a 2015 cite, and it	18	that you were with the FDA, one of your
19	also notes that it was e-published in 2014.	19	responsibilities was to be the project manager for
20	Do you see that?	20	the University of Mississippi Natural Products
21	A I do.	21	Research Center?
22	Q And if I look at your declaration, you	22	A Yes. I was project officer in May of
23	cited in reference in your Exhibit 1 to your	23	2014.
24	expert declaration, reference 24, the 2015 version	24	Q Okay. So the e-version of this came out
25	of the ElSohly article.	25	in August of 2014, Welch Exhibit 11.
	Page 100		Page 101
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	Do you see that up at the top?	2	were reviewed?
3	A I do.	3	MR. DAVENPORT: Objection to the
4	Q So my question to you is: From May 2014	4	form of the question.
5	to when this was published, do you recall any		
		5	You can answer if able.
6	conversations you had with any of the authors as	6	You can answer if able. THE WITNESS: I am not aware of any
6 7		1	
	conversations you had with any of the authors as	6	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for
7 8 9	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations.	6 7 8 9	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.)
7 8 9 10	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to	6 7 8 9 10	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK:
7 8 9 10 11	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to the article, it says in the very last line, "None	6 7 8 9 10 11	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a
7 8 9 10 11	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to the article, it says in the very last line, "None of the laboratories detected MHA in any of the	6 7 8 9 10 11 12	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a document I've marked as Welch Exhibit 12, and I
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to the article, it says in the very last line, "None of the laboratories detected MHA in any of the samples at or around the ten parts per billion detection level of the procedure used." Do you see that? A I do. Q What is your understanding what "MHA" stands for? A Methylhexaneamine. Q Is that a synonym for DMAA, if you will?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a document I've marked as Welch Exhibit 12, and I suspect you've probably not seen this before, so please take a minute or two to just thumb through it, and I want to ask you a couple of questions. (Witness peruses document.) THE WITNESS: Okay. BY MR. WENIK: Q All right. So my first question to you is: Having had an opportunity to look at what
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to the article, it says in the very last line, "None of the laboratories detected MHA in any of the samples at or around the ten parts per billion detection level of the procedure used." Do you see that? A I do. Q What is your understanding what "MHA" stands for? A Methylhexaneamine. Q Is that a synonym for DMAA, if you will? A It is. Q All right. Did the authors of the study ever reveal to you in 2014, before it was	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a document I've marked as Welch Exhibit 12, and I suspect you've probably not seen this before, so please take a minute or two to just thumb through it, and I want to ask you a couple of questions. (Witness peruses document.) THE WITNESS: Okay. BY MR. WENIK: Q All right. So my first question to you is: Having had an opportunity to look at what I've marked for identification as Welch Exhibit 12, which, for the record, is an email chain accompanied by a series of chromatograms, have you
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	conversations you had with any of the authors as to what conclusions they were going to publish in the article? A No, I don't recall any conversations. Q Okay. So if we look at the abstract to the article, it says in the very last line, "None of the laboratories detected MHA in any of the samples at or around the ten parts per billion detection level of the procedure used." Do you see that? A I do. Q What is your understanding what "MHA" stands for? A Methylhexaneamine. Q Is that a synonym for DMAA, if you will? A It is. Q All right. Did the authors of the study	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: I am not aware of any conversation discussing what you proposed. (Exhibit 12 was marked for identification.) BY MR. WENIK: Q Doctor, I've placed before you a document I've marked as Welch Exhibit 12, and I suspect you've probably not seen this before, so please take a minute or two to just thumb through it, and I want to ask you a couple of questions. (Witness peruses document.) THE WITNESS: Okay. BY MR. WENIK: Q All right. So my first question to you is: Having had an opportunity to look at what I've marked for identification as Welch Exhibit 12, which, for the record, is an email chain

Page 102 Page 103 1 Cara R. Welch, Ph.D. 1 Cara R. Welch, Ph.D. 2 Q Okay. In the first page, the scientists 2 to the researchers that published this article and in the email chain refer to having found "DMAA 3 3 the data that they actually published? 4 could be detected by MRM method." I know you have 4 MR. DAVENPORT: Objection to the some experience in chemistry. 5 5 form of the question, one. Two, Counsel, 6 What is your understanding of what the 6 she's not here to render an opinion on DMAA 7 MRM method is, if you have an understanding? 7 as a constituent of the geranium plant, which 8 A I don't recall at this time. 8 is the subject of Exhibits 11 and 12. 9 MR. WENIK: And that's fair, but I 9 O Okay. So I'm looking at the fourth page in, 10 think, candidly, she's a fact witness to the 10 which is page 5894. 11 extent she was the project manager for these 11 people, and she was on board in 2014 and in 12 A Okay. 12 Q All right, and there is some series of 13 theory would have reviewed this. So I agree 13 chromatograms there, and it says Figure 5, and it 14 with you. I'm not asking her as an expert. 14 15 BY MR. WENIK: says that the "isomer of 1,3-dimethylamylamine," 15 I'll just say DMAA, "was detected in samples 16 Q But I'm asking you, as a matter of fact, 16 13040, 13041, 13047, 13048 and 13049." 17 you were the project manager and gave these people 17 18 two and a half million dollars in 2014. Did they And if I turn your attention to what I 18 19 share this with you? 19 marked as Welch Exhibit 11, to page 3, there's a 20 MR. DAVENPORT: I'm going to object 20 table, Table 1, that lists all the samples with their identifying numbers, and if we look at the 21 again to the form of that question, and 21 22 object to your characterization. list here, it lists 13040, 13041, 13047, 13048 and 22 23 With that understanding, you can 13049 as having no DMAA detected in those samples. 23 24 answer, Dr. Welch, if able. 24 My question to you is: Were you aware 25 of the discrepancy between chromatograms submitted 25 THE WITNESS: I'm not familiar with Page 104 Page 105 1 1 Cara R. Welch, Ph.D. Cara R. Welch, Ph.D. 2. these chromatograms at all, and I don't have 2 BY MR. WENIK: 3 all of the information at hand, so I don't --3 Q Okay, and would they submit that to you 4 I can't answer whether there is a 4 as project manager for your review every year? 5 A Part of being a project officer is I 5 discrepancy. 6 6 receive quarterly -- I have quarterly meetings BY MR. WENIK: 7 Q Okay. As the project manager, did you 7 with NCNPR. I explain to them FDA's research choose the centers that the research was conducted 8 priorities pertaining to botanical dietary 8 9 at that is reflected in this article, or was that 9 ingredients and dietary supplements. We discuss 10 10 the research that they are working on. We don't delegated to these researchers? A The project officer -- my role as the get to the level of reviewing results in any 11 11 project officer, I had nothing do with the design 12 particular fashion. 12 Q Is there a provision in the grant 13 of this study. 13 Q Is there a written contract that governs application to rescind payment if they falsify 14 14 that grant, that two-and-a-half-million-dollar 15 research results? 15 16 grant between the University of Mississippi 16 A I have no idea. Natural Products Research Center and the FDA? 17 17 Q In preparing your expert opinions, did MR. DAVENPORT: Objection to the 18 18 you rely on any analyses or memoranda from any international regulatory bodies from other 19 form of the question. 19 THE WITNESS: It's not a contract. 20 20 countries? 21 It's a cooperative agreement, which is much 21 A I'm sorry. Can you repeat the question? 22 more similar to a grant. There is a -- I 2.2 Q Yeah. 23 don't know the appropriate term. There is a 23 Coming to your opinions that are 24 grant agreement of sorts. 24 reflected in your research, I didn't see in your 25 25 reference list any citations which I've seen in

	Page 106		Page 107
1	Cara R. Welch, Ph.D.	1	Cara R. Welch, Ph.D.
2	other depositions to any of the DMAA analyses that	2	Q Would you make it a point of going every
3	have been conducted by other countries such as	3	year?
4	Denmark and Canada, Australia, what-have-you.	4	A I did not attend every year.
5	Did you not consider any of that in	5	Q Do you know whether you attended in
6	coming to your opinions?	6	2013, the year before you joined FDA?
7	A I don't believe so. The references that	7	A I believe I did.
8	I did consult and draft in my expert report are	8	Q As part of the cooperative agreement
9	listed in Exhibit 1.	9	between the FDA and the University of Mississippi
10	Q All right. Are you familiar with a	10	Natural Products Research Center, do they submit
11	conference that is held annually called the Oxford	11	for your review, for the project officer to
12	International Conference on the Science of	12	review, PowerPoint presentations that they're
13	Botanicals that is held in Oxford, Mississippi?	13	going to make at this conference?
14	A Yes, I'm aware of it.	14	A No.
15	Q What is your understanding of what this	15	Q Do you recall attending any PowerPoint
16	conference is?	16	presentation by Dr. ElSohly at the 2013
17	A It's an international conference,	17	conference?
18	largely focused on botanical dietary supplements,	18	A I don't remember. I don't recall.
19	botanical dietary ingredients. It is put on by	19	Q Have you seen the PowerPoints from that
20	NCNPR at U Miss. It is part of the cooperative	20	2013 conference regarding his purported research
21	agreement that NCNPR has with FDA.	21	on DMAA?
22	Q Did you attend this conference in your	22	A I don't recall at this time. If I
23	capacity as an employee of the Natural Products	23	attended that presentation in 2013, I would have
24	Association before you came on board with the FDA?	24	seen it. I don't recall particularly having
25	A Yes, I believe so.	25	viewed his or other presentations from 2013.
	A Tes, I believe so.		viewed his of other presentations from 2015.
	T 100		
	Page 108		Page 109
1	Cara R. Welch, Ph.D.	1	Page 109 Cara R. Welch, Ph.D.
1 2	Cara R. Welch, Ph.D. Q If he had prepared PowerPoints which	1 2	
	Cara R. Welch, Ph.D.		Cara R. Welch, Ph.D.
2	Cara R. Welch, Ph.D. Q If he had prepared PowerPoints which	2	Cara R. Welch, Ph.D. University of Mississippi that was published in
2	Cara R. Welch, Ph.D. Q If he had prepared PowerPoints which contained false information, would that have been something of interest to you as the project officer for this cooperative agreement?	2	Cara R. Welch, Ph.D. University of Mississippi that was published in 2015, as I've shown you e-published in 2014.
2 3 4	Cara R. Welch, Ph.D. Q If he had prepared PowerPoints which contained false information, would that have been something of interest to you as the project	2 3 4	Cara R. Welch, Ph.D. University of Mississippi that was published in 2015, as I've shown you e-published in 2014. Would it change your opinions, your
2 3 4 5	Cara R. Welch, Ph.D. Q If he had prepared PowerPoints which contained false information, would that have been something of interest to you as the project officer for this cooperative agreement?	2 3 4 5	Cara R. Welch, Ph.D. University of Mississippi that was published in 2015, as I've shown you e-published in 2014. Would it change your opinions, your expert opinions in this matter if you determined
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1	Cara R. Welch, Ph.D.	1
2	MR. WENIK: Okay. I think that is	2
3	as good a place as any for me to conclude my	3
4	questioning.	4
5	MR. DAVENPORT: I have no	5
6	questions. We'll read.	6 ACKNOWLEDGEMENT OF WITNESS
7	(Signature having not been waived,	7 I, Cara R. Welch, Ph.D., do hereby
8	the deposition of CARA R. WELCH,	8 acknowledge that I have read and examined the
9	Ph.D. was concluded at 12:20 p.m.)	9 foregoing testimony, and the same is a true,
10		10 correct and complete transcription of the
11		testimony given by me, and any corrections
12		appear on the attached Errata sheet signed by
13		13 me.
14		14
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1	NAME OF CASE:	1 CERTIFICATE OF SHORTHAND REPORTER NOTARY PUBLIC
2	DATE OF DEPOSITION:	2
3	NAME OF WITNESS:	3 4
4	Reason Codes:	5
5	1. To clarify the record.	6 I, Laurie Donovan, Registered
6	2. To conform to the facts.	Professional Reporter, Certified Realtime Reporter, the officer before whom the
7	3. To correct transcription errors.	foregoing deposition was taken, do hereby
8	Page Line Reason	8 certify that the foregoing transcript is a true and correct record of the testimony
9	From to	9 given; that said testimony was taken by me
10 11	Page Line Reason From to	stenographically and thereafter reduced to
12	Page Line Reason	- 10 typewriting under my supervision; and that I am neither counsel for, related to, nor
13	From to	employed by any of the parties to this case
14	Page Line Reason	and have no interest, financial or otherwise, in its outcome.
15	From to	IN WITNESS WHEREOF, I have hereunto
16	Page Line Reason	set my hand and affixed my notarial seal this
17	From to	14 2nd day of December, 2016. My commission expires: March 14th, 2021
18	Page Line Reason	16
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