



Report Number: 1485641-1

Report Date: 27-Apr-2016

Report Status: Final

Supersedes : 1485641-0

### Certificate of Analysis

## North American Herb & Spice

13900 W. Polo Trail Drive  
Lake Forest Illinois 60045 United States

<b>Sample Name:</b>	<b>Salmon Oil</b>	<b>Covance Sample:</b>	<b>4915567</b>
<b>Project ID</b>	NA_HERB_SP-20160414-0006	<b>Receipt Date</b>	15-Apr-2016
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	67443A	<b>Login Date</b>	14-Apr-2016
<b>Sample Serving Size</b>	1 g	<b>Storage Condition</b>	Ambient temperature
		<b>Online Order</b>	1527-BD2772B

Analysis	Result
<b>Fatty Acids calculated as Triglycerides *</b>	
4:0 Butyric	<0.00063 g/Serving Size
6:0 Caproic	<0.00063 g/Serving Size
8:0 Caprylic	<0.00063 g/Serving Size
10:0 Capric	<0.00063 g/Serving Size
12:0 Lauric	<0.00063 g/Serving Size
14:0 Myristic	0.0390 g/Serving Size
14:1 Myristoleic	0.00069 g/Serving Size
15:0 Pentadecanoic	0.00413 g/Serving Size
15:1 Pentadecenoic	<0.00064 g/Serving Size
16:0 Palmitic	0.135 g/Serving Size
16:1 Palmitoleic	0.0551 g/Serving Size
17:0 Heptadecanoic	0.00230 g/Serving Size
17:1 Heptadecenoic	<0.00064 g/Serving Size
18:0 Stearic	0.0207 g/Serving Size
18:1 Oleic	0.155 g/Serving Size
Total 18:1 Isomers	0.197 g/Serving Size
18:2 Linoleic	0.0134 g/Serving Size
18:3 Gamma Linolenic	<0.00064 g/Serving Size
18:3 Alpha Linolenic	0.00763 g/Serving Size
18:4 Octadecatetraenoic	0.0148 g/Serving Size
20:0 Arachidic	0.00095 g/Serving Size
20:1 Eicosenoic	0.0380 g/Serving Size
20:2 Eicosadienoic	0.00336 g/Serving Size
20:4 Arachidonic (n6)	0.00348 g/Serving Size
20:4 Arachidonic (n3)	0.0105 g/Serving Size
20:3 Eicosatrienoic	0.00187 g/Serving Size
20:3 Homogamma Linolenic	0.00100 g/Serving Size
20:5 Eicosapentaenoic	0.0848 g/Serving Size
21:5 Heneicosapentaenoic	0.00355 g/Serving Size
22:0 Behenic	<0.00064 g/Serving Size
22:1 Erucic	0.0100 g/Serving Size
22:2 Docosadienoic	<0.00064 g/Serving Size
22:3 Docosatrienoic	<0.00064 g/Serving Size
22:4 Docosatetraenoic	<0.00064 g/Serving Size
22:5 Docosapentaenoic (n6)	0.00113 g/Serving Size
22:5 Docosapentaenoic (n3)	0.0193 g/Serving Size
24:0 Lignoceric	<0.00064 g/Serving Size

\* This analysis is not ISO accredited.

## Certificate of Analysis

### North American Herb & Spice

13900 W. Polo Trail Drive  
Lake Forest Illinois 60045 United States

<b>Sample Name:</b>	Salmon Oil	<b>Covance Sample:</b>	4915567
<b>Project ID</b>	NA_HERB_SP-20160414-0006	<b>Receipt Date</b>	15-Apr-2016
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	67443A	<b>Login Date</b>	14-Apr-2016
<b>Sample Serving Size</b>	1 g	<b>Storage Condition</b>	Ambient temperature
		<b>Online Order</b>	1527-BD2772B

Analysis	Result
<b>Fatty Acids calculated as Triglycerides *</b>	
22:6 Docosahexaenoic	0.0763 g/Serving Size
24:1 Nervonic	0.00810 g/Serving Size
Saturated Fat	0.192 g/Serving Size
Monounsaturated Fat, Cis and Trans Isomers	0.296 g/Serving Size
Polyunsaturated Fat, Cis and Trans Isomers	0.232 g/Serving Size
Omega 3 Fatty Acids	0.219 g/Serving Size
Omega 6 Fatty Acids	0.0224 g/Serving Size
Sum of Fatty Acids	0.752 g/Serving Size
<b>Vitamin A as Retinol</b>	
Vitamin A from Retinol	337 IU/Serving size
<b>Vitamin D by LCMS</b>	
Total Vitamin D3	100 IU/Serving size
Total Vitamin D2	<0.0200 IU/Serving size

Method References	Testing Location
-------------------	------------------

<b>Fatty Acids calculated as Triglycerides (FALC_S:20)</b> Official Methods and Recommended Practices of the AOCS, Official methods Ce 2b-11 (2011), Ce 1i-07, Ce 2-66 (2009), The American Oil Chemists' Society, Champaign, IL (modified).	<b>Covance Laboratories - Madison</b>
---	---------------------------------------

<b>Vitamin A as Retinol (VALC_S:16)</b> Official Methods of Analysis, Methods 992.04, 992.06, and 2001.13, AOAC INTERNATIONAL (Modified).	<b>Covance Laboratories - Madison</b>
--	---------------------------------------

<b>Vitamin D by LCMS (VDMS_S:18)</b> Official Methods of Analysis of AOAC INTERNATIONAL, Current Ed., Method 2011.11, AOAC INTERNATIONAL, Gaithersburg, MD, USA.	<b>Covance Laboratories - Madison</b>
---	---------------------------------------

Huang, M., Laluzerne, P., Winters, D., Sullivan, D., "Measurement of Vitamin D in Foods and Nutritional Supplements by Liquid Chromatography/Tandem Mass Spectrometry," *Journal of AOAC International*, Volume (92). No. 5:1327-1335 (2009).

## Certificate of Analysis

### North American Herb & Spice

13900 W. Polo Trail Drive  
Lake Forest Illinois 60045 United States

Testing Location(s)	Released on Behalf of Covance by
<b>Covance Laboratories - Madison</b>	<b>Lori Ross - Associate Director</b>
Covance Laboratories Inc. 3301 Kinsman Blvd Madison WI 53704 800-675-8375 x4170	



2918.01

**These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Covance.**