

CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2
Lot No: 15054D11020
Best Before: October, 2022
 Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.92
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.453
Acid Value:	≤ 40.0 mgKOH/g	9.85
Iodine Value:	30 – 100 g/100g	68.25
Saponification Value:	130 – 200 mgKOH/g	192
Unsaponifiables:	≥ 1 %	3.35
Peroxide value:	≤ 0.4 %	0.16
Vitamin E:	≥ 100 mg/100g	137
Total Carotenoides:	≥ 150 mg/100g	189
α-tocopherol:	≥ 60 mg/100g	106
β-carotene:	≥ 5 mg/100g	6.85
Linoleic acid, C18:2:	2.0 – 8.0 %	4.20
Linolenic acid, C18:3:	1.0 – 3.0 %	1.41

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054C10820

Best Before: August, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.92
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.455
Acid Value:	≤ 40.0 mgKOH/g	10.8
Iodine Value:	30 – 100 g/100g	68.38
Saponification Value:	130 – 200 mgKOH/g	193
Unsaponifiables:	≥ 1 %	3.5
Peroxide value:	≤ 0.4 %	0.17
Vitamin E:	≥ 100 mg/100g	138
Total Carotenoides:	≥ 150 mg/100g	189
α-tocopherol:	≥ 60 mg/100g	105
β-carotene:	≥ 5 mg/100g	6.85
Linoleic acid, C18:2:	2.0 – 8.0 %	4.21
Linolenic acid, C18:3:	1.0 – 3.0 %	1.40

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054B10720

Best Before: July, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.91
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.458
Acid Value:	≤ 40.0 mgKOH/g	13.6
Iodine Value:	30 – 100 g/100g	68.37
Saponification Value:	130 – 200 mgKOH/g	194
Unsaponifiables:	≥ 1 %	3.51
Peroxide value:	≤ 0.4 %	0.17
Vitamin E:	≥ 100 mg/100g	144
Total Carotenoides:	≥ 150 mg/100g	191
α-tocopherol:	≥ 60 mg/100g	106
β-carotene:	≥ 5 mg/100g	6.85
Linoleic acid, C18:2:	2.0 – 8.0 %	4.33
Linolenic acid, C18:3:	1.0 – 3.0 %	1.19

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054A10720

Best Before: July, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.913
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.456
Acid Value:	≤ 40.0 mgKOH/g	13.2
Iodine Value:	30 – 100 g/100g	68.35
Saponification Value:	130 – 200 mgKOH/g	195
Unsaponifiables:	≥ 1 %	3.5
Peroxide value:	≤ 0.4 %	0.19
Vitamin E:	≥ 100 mg/100g	146
Total Carotenoides:	≥ 150 mg/100g	192
α-tocopherol:	≥ 60 mg/100g	105
β-carotene:	≥ 5 mg/100g	6.83
Linoleic acid, C18:2:	2.0 – 8.0 %	4.31
Linolenic acid, C18:3:	1.0 – 3.0 %	1.17

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2
 Lot No: 15054B10420
 Best Before: April, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.912
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.466
Acid Value:	≤ 40.0 mgKOH/g	13.3
Iodine Value:	30 – 100 g/100g	68.26
Saponification Value:	130 – 200 mgKOH/g	196
Unsaponifiables:	≥ 1 %	3.57
Peroxide value:	≤ 0.4 %	0.19
Vitamin E:	≥ 100 mg/100g	142
Total Carotenoides:	≥ 150 mg/100g	193
α-tocopherol:	≥ 60 mg/100g	108
β-carotene:	≥ 5 mg/100g	6.82
Linoleic acid, C18:2:	2.0 – 8.0 %	4.32
Linolenic acid, C18:3:	1.0 – 3.0 %	1.16

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054B104191

Best Before: April, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	Complies
Refractive Index:	1.4500 – 1.4800 @ 20°C	Complies
Acid Value:	≤ 40.0 mgKOH/g	Complies
Iodine Value:	30 – 100 g/100g	Complies
Saponification Value:	130 – 200 mgKOH/g	Complies
Unsaponifiables:	≥ 1 %	Complies
Peroxide value:	≤ 0.4 %	Complies
Vitamin E:	≥ 100 mg/100g	Complies
Total Carotenoides:	≥ 150 mg/100g	Complies
α-tocopherol:	≥ 60 mg/100g	Complies
β-carotene:	≥ 5 mg/100g	Complies
Linoleic acid, C18:2:	2.0 – 8.0 %	Complies
Linolenic acid, C18:3:	1.0 – 3.0 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2
Lot No: 15054A103191
Best Before: March, 2022
 Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	Complies
Refractive Index:	1.4500 – 1.4800 @ 20°C	Complies
Acid Value:	≤ 40.0 mgKOH/g	Complies
Iodine Value:	30 – 100 g/100g	Complies
Saponification Value:	130 – 200 mgKOH/g	Complies
Unsaponifiables:	≥ 1 %	Complies
Peroxide value:	≤ 0.4 %	Complies
Vitamin E:	≥ 100 mg/100g	Complies
Total Carotenoides:	≥ 150 mg/100g	Complies
α-tocopherol:	≥ 60 mg/100g	Complies
β-carotene:	≥ 5 mg/100g	Complies
Linoleic acid, C18:2:	2.0 – 8.0 %	Complies
Linolenic acid, C18:3:	1.0 – 3.0 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2
 Lot No: 15054A10120
 Best Before: January, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.912
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.466
Acid Value:	≤ 40.0 mgKOH/g	13.3
Iodine Value:	30 – 100 g/100g	68.26
Saponification Value:	130 – 200 mgKOH/g	196
Unsaponifiables:	≥ 1 %	3.57
Peroxide value:	≤ 0.4 %	0.19
Vitamin E:	≥ 100 mg/100g	142
Total Carotenoides:	≥ 150 mg/100g	193
α-tocopherol:	≥ 60 mg/100g	108
β-carotene:	≥ 5 mg/100g	6.82
Linoleic acid, C18:2:	2.0 – 8.0 %	4.32
Linolenic acid, C18:3:	1.0 – 3.0 %	1.16

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2
 Lot No: 15054B11219
 Best Before: December, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.913
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.450
Acid Value:	≤ 40.0 mgKOH/g	13.7
Iodine Value:	30 – 100 g/100g	68.23
Saponification Value:	130 – 200 mgKOH/g	198
Unsaponifiables:	≥ 1 %	3.8
Peroxide value:	≤ 0.4 %	0.18
Vitamin E:	≥ 100 mg/100g	138
Total Carotenoides:	≥ 150 mg/100g	185
α-tocopherol:	≥ 60 mg/100g	108
β-carotene:	≥ 5 mg/100g	6.78
Linoleic acid, C18:2:	2.0 – 8.0 %	4.35
Linolenic acid, C18:3:	1.0 – 3.0 %	1.09

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054A10719

Best Before: July, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.902
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.451
Acid Value:	≤ 40.0 mgKOH/g	13.5
Iodine Value:	30 – 100 g/100g	68.4
Saponification Value:	130 – 200 mgKOH/g	196
Unsaponifiables:	≥ 1 %	3.81
Peroxide value:	≤ 0.4 %	0.20
Vitamin E:	≥ 100 mg/100g	135
Total Carotenoides:	≥ 150 mg/100g	187
α-tocopherol:	≥ 60 mg/100g	106
β-carotene:	≥ 5 mg/100g	6.85
Linoleic acid, C18:2:	2.0 – 8.0 %	4.06
Linolenic acid, C18:3:	1.0 – 3.0 %	1.07

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054A10619

Best Before: June, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.901
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.453
Acid Value:	≤ 40.0 mgKOH/g	13.2
Iodine Value:	30 – 100 g/100g	68.2
Saponification Value:	130 – 200 mgKOH/g	195
Unsaponifiables:	≥ 1 %	3.82
Peroxide value:	≤ 0.4 %	0.18
Vitamin E:	≥ 100 mg/100g	136
Total Carotenoides:	≥ 150 mg/100g	188
α-tocopherol:	≥ 60 mg/100g	108
β-carotene:	≥ 5 mg/100g	6.92
Linoleic acid, C18:2:	2.0 – 8.0 %	4.05
Linolenic acid, C18:3:	1.0 – 3.0 %	1.07

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054B10419

Best Before: April, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.912
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.456
Acid Value:	≤ 40.0 mgKOH/g	12.8
Iodine Value:	30 – 100 g/100g	67.5
Saponification Value:	130 – 200 mgKOH/g	191
Unsaponifiables:	≥ 1 %	3.76
Peroxide value:	≤ 0.4 %	0.18
Vitamin E:	≥ 100 mg/100g	137
Total Carotenoides:	≥ 150 mg/100g	184
α-tocopherol:	≥ 60 mg/100g	106
β-carotene:	≥ 5 mg/100g	6.21
Linoleic acid, C18:2:	2.0 – 8.0 %	4.03
Linolenic acid, C18:3:	1.0 – 3.0 %	1.56

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Sea Buckthorn Oil – CO2

Lot No: 15054A10319

Best Before: March, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Reddish-brown to dark brown clear liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Miscible with fatty oils and fat soluble organic solvents. Insoluble in water.	Complies
Specific Gravity:	0.8500 – 0.9800 @ 25°C	0.912
Refractive Index:	1.4500 – 1.4800 @ 20°C	1.456
Acid Value:	≤ 40.0 mgKOH/g	12.8
Iodine Value:	30 – 100 g/100g	67.5
Saponification Value:	130 – 200 mgKOH/g	191
Unsaponifiables:	≥ 1 %	3.76
Peroxide value:	≤ 0.4 %	0.18
Vitamin E:	≥ 100 mg/100g	137
Total Carotenoides:	≥ 150 mg/100g	184
α-tocopherol:	≥ 60 mg/100g	106
β-carotene:	≥ 5 mg/100g	6.21
Linoleic acid, C18:2:	2.0 – 8.0 %	4.03
Linolenic acid, C18:3:	1.0 – 3.0 %	1.56

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