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Certificate of Analysis

Product: Sea buckthorn Pulp CO2 extract-Semi Solid lipids
 Botanical name: *Hippophae rhamnoides L.*
 Raw material: *Hippophae rhamnoides-fruit Pulp, dried*
 Batch number: 331315
 Country of origin of raw material: Pakistan, Lithuania
 Country of origin of product: Germany
 Method of production: CO2 Extraction
 Date of MFG: 01-FEB-2020
 Expiration date: 01-FEB-2022

Sensory Check

Feature	Reference	Result
Appearance	Yellow to light reddish extract with semi-solid consistency at room temperature	Meets

Analytical Check

Feature	Method	Limits	Value Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	32,0%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	> 30,0	38,4 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	0,96 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	14,6 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	6,0 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	n.s.	5,8 %

alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	2,2 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,15 %
Sum of Carotenoids (calc. as β-Carotene)	21.008.05, Spectrometer	0,005 - 0,05	0,02 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 15	1,5 meq O2/kg
Free fatty acids	21.016.03, DGF	n.s.	35,7 %
Saponification value	21.017.02, DGF	n.s.	197 mg KOH/g
Ester value	= SV - AV	n.s.	121 mg KOH/g

n.s. = not specified

n.d. = not detected

Storage: Store in a tightly sealed containers, in a cool dry place, away from direct sunlight.

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