

AKÖMA™

FROM THE HEART

CERTIFICATE OF ANALYSIS SEA BUCKTHORN OIL (COLD PRESSED)

DESCRIPTION

Product: Sea Buckthorn Oil (Cold Pressed)
INCI Name: Hippophae Rhamnoides Fruit (Sea Buckthorn) Oil
CAS No: 225234-03-7 / 90106-68-6
EINECS No: - / 290-292-8

CHARACTERISTICS

ANALYTICAL DETAILS	RANGE	RESULT
APPEARANCE	Liquid dark Orange	Complies
ODOUR & TASTE	Characteristic	Complies
SPECIFIC GRAVITY @ 20 °C	0.910 – 0.940	0.911
REFRACTIVE INDEX @ 20 °C	1.450 - 1.480	1.470
FREE FATTY ACID (% AS OLEIC)	≤ 10.0	5.6
IODINE VALUE (CALC)	30 - 100	97
PEROXIDE VALUE (Meq / kg)	≤ 10.0	5.14
SAPONIFICATION VALUE	130 - 200	N/D
UNSAAPONIFIABLE MATTER	≥ 1.0	N/D
ACID VALUE	≤ 20.0	11.20
FLASH POINT (°C)	> 100	> 100
WATER AND VOLATILE (%)	≤ 0.3	N/D
VITAMIN E (mg/100g)	≥100	N/D
CAROTENOIDS (mg/100g)	≤ 150	N/D
PESTICIDES (mg/kg)	Not detected	Complies
BENZYPRENE (ug/kg)	≤10.0	N/D

FATTY ACID PROFILE (MAJOR ACIDS)	ACID NAME	C-CHAIN	RANGE	RESULT
	MYRISTIC	C14:0	≤ 1.0	<1.0
	PALMITIC	C16:0	25.0 – 36.0	25.3
	PALMITOLEIC	C16:1	20.0 – 38.0	19.2
	STEARIC	C18:0	0.5 – 2.5	1.91
	OLEIC	C18:1	25.0 – 32.0	24.3
	LINOLEIC	C18:2	10.0 – 20.0	25.78
	ALPHA LINOLENIC	C18:3	≤ 4.0	1.98
	ARACHIDIC ACID	C20:0	0.1 – 0.4	0.17

HEAVY METALS	RANGE	RESULT
As (INORGANIC) (mg/kg)	≤0.2	0.04
Pb (mg/kg)	≤0.2	0.10
Hg (mg/kg)	≤0.2	0.06
Cd (mg/kg)	≤0.2	0.04

MICROBIOLOGY	RANGE	RESULT
TOTAL PLATE COUNT (CFU/G)	≤1000	<100
MOULD & YEAST (CFU/G)	≤300	<10
E.COLI (CFU/G)	Not detected	Complies
PSEUDOMONAS AERUGINOSA (CFU/G)	Not detected	Complies
SALMONELLA SPECIES (CFU/G)	Not detected	Complies
STAPHYLOCOCCUS AUREUS (CFU/G)	Not detected	Complies

Revised: 24/07/2015