

# F&D Nature Food Inc.

RN 1317, No. 115 Minzu Ave. Nanning, Guangxi Prov., China

## CERTIFICATE OF ANALYSIS

Commodity name: Seabuckthorn Seed Oil (Latin name - Hippophae Rhamnoides L.)

Smell: characteristic natural smell of seed oil

Color: Brown yellow

Manufacture Date: March 3th, 2011

Batch No.: CQ110301

Inspection Date: March 8<sup>th</sup>,2011

Shelf time: 24 months from manufacture date

Items	Analysis Result	Items	Analysis Results
Value		Vitamin A	>4.0 mg/100g
Density	0.9268	Vitamin D	>2.0 mg/100g
Dioptric index	1.4780	Vitamin K	110 ~ 230 mg/100g
Acid value(mgKOH/g)	3.1	Carotene	60 ~ 80mg/100g
Iodine value(g/100g)	151	Total flavonoids	10 ~ 60mg/100g
Saponification value mgKOH/g	184-200	Trace elements	
Unsaponifiable matter(matter)	.1-3.0	Iron	= 0.50 mg/100g
Peroxide value(meq/kg)	0.04	Zinc	= 0.10 mg/100g
Moisture(%)	0.15	Calcium	= 0.80 mg/100g
Nutritional values (functional composition)		Magnesium	0.70 mg/100g
Saturated Fatty Acid Total	13%	Selenium	= 10.0mg/100g
Myristic acid	(c14:0) 0.1-.3%	Heavy Metal	
Palmitic acid	(c16:0)7.5-11.2%	Pb (mg/kg)	(neg in fact)
Stearic acid	(c18:0)1.0-2.5%	As (mg/kg)	(neg in fact)
Arachidic acid	(c20:0) 0.2 ~ 0.5 %	Hg (mg/kg)	(neg in fact)
Unsaturated fatty acid (total)	89%	Microbiological test (cfu/g)	
Palmitoleic acid [Omega 7]	9.0%	Salmonella	(neg in fact)
Oleic acid [Omega 9]	30%	E.coli	(neg in fact)
Linoleic acid [Omega 6]	38%	Staphylococcus aureus	(neg in fact)
Linolenic acid [Omega 3]	31%	Aflatoxin	(neg in fact)
Phytosterol(Total)	1100mg/100g	Pesticide Residue	
Vitamin E	218.3mg/100g	666	0.2ppm(neg in fact)
		DDT	0.1ppm(neg in fact)

Remark: This product contains 100% natural and pure seabuckthorn seed oil. No other compositions are in it..

For and on behalf of  
F & D Nature Food Inc.

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Authorized Signature(s)