



NHR ORGANIC OILS  
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## Certificate of Analysis Sheet

### Organic Borago Seed (*Borago officinalis*)

PRODUCT NAME: BORAGE SEED OIL 20% GLA COLD PRESSED ORGANIC
BATCH NUMBER: 230223-4
PRODUCT INCI: BORAGO OFFICINALIS
CAS NUMBER: 84012-16-8
EINECS NUMBER: 281-661-4
MANUFACTURING METHOD: COLD PRESSED

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	SPICY CHARACTERISTIC	-
COLOUR	YELLOW - GREEN	-
COLOUR (GARDNER)	<12.0	-
REFRACTIVE INDEX @ 20°C	1.470 – 1.480	1.471
FREE FATTY ACID	<2.0	-
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	1.52
SPECIFIC GRAVITY @ 20°C	0.910 – 0.935	0.922
ACID VALUE	<4.0	0.38
SAPONIFICATION VALUE	185.0 – 195.0	187

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	9.0 – 14.0	9.48
C16:1	PALMITOLEIC	<0.6	0.16
C18:0	STEARIC	3.0 - 5.5	4.91
C18:1	OLEIC	15.0 – 20.0	18.66
C18:2	LINOLEIC	35.0 – 42.0	39.43
C18:3	GAMMA LINOLENIC	>20.0	20.0
C20:0	ARACHIDIC	<0.5	0.35
C20:1	EICOSENOIC	<0.1	-
C22:1	ERUCIC	1.0 – 3.0	2.38

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with NHR Organic Oils regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations.