



NHR ORGANIC OILS  
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## Certificate of Analysis Sheet

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

PRODUCT NAME: BORAGO SEED OIL, COLD PRESSED ORGANIC
BATCH NUMBER: 280725-4
PRODUCT INCI: BORAGO OFFICINALIS SEED OIL
ORIGIN: EUROPE
CAS NUMBER: 225234-12-8
EINECS NUMBER: NOT LISTED.
MANUFACTURING METHOD: COLD PRESSED

ANALYTICAL DETAILS	RANGE %	RESULT
APPEARANCE	OILY LIQUID	COMPLIES
ODOUR	CHARACTERISTIC	COMPLIES
COLOUR	YELLOW - GREEN	COMPLIES
COLOUR (GARDNER)	<12.0	4.0Y
REFRACTIVE INDEX @ 20°C	1.470 – 1.480	1.475
FREE FATTY ACID	<2.0	0.09
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	2.9
SPECIFIC GRAVITY @ 20°C	0.910 – 0.930	0.920
ACID VALUE	<4.0	0.18
SAPONIFICATION VALUE	185.0 – 195.0	190.0

FATTY ACID PROFILE		RANGE %	RESULT
<b>C-CHAIN</b>	<b>ACID NAME</b>		
C16:0	PALMITIC	9.0 – 14.0	10.2
C16:1	PALMITOLEIC	<0.6	< 0.6
C18:0	STEARIC	3.0 - 5.5	5.9
C18:1	OLEIC	15.0 – 20.0	20.0
C18:2	LINOLEIC	35.0 – 40.0	36.2
C18:3	ALPHA LINOLENIC	<0.5	0.3
C18:3	GAMMA LINOLENIC	>20.0	20.5
C20:0	ARACHIDIC	<0.5	< 0.5
C20:1	EICOSENOIC	<0.1	<0.1

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.