



NHR ORGANIC OILS
24 CHATHAM PLACE, BRIGHTON, BN1 3TN, UK
+44 (0)1273 746505 info@nhrorganiccoils.com www.nhrorganiccoils.com

Certificate of Analysis Sheet Organic Borage Seed Oil (*Borago officinalis*)

| |
|---|
| PRODUCT NAME: BORAGO SEED OIL 20% GLA, COLD PRESSED ORGANIC |
| BATCH NUMBER: 300126-1 |
| PRODUCT INCI: BORAGO OFFICINALIS SEED OIL |
| 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 | 6.4y |
| REFRACTIVE INDEX @ 20°C | 1.470 – 1.480 | 1.475 |
| FREE FATTY ACID | <2.0 | 0.6 |
| PEROXIDE VALUE (MEQ O ₂ / KG) | <20.0 | 3.8 |
| SPECIFIC GRAVITY @ 20°C | 0.910 – 0.930 | 0.920 |
| ACID VALUE | <4.0 | 1.2 |
| SAPONIFICATION VALUE | 185.0 – 195.0 | 190.0 |

| FATTY ACID PROFILE | | RANGE % | RESULT |
|--------------------|-----------------|-------------|--------|
| C-CHAIN | ACID NAME | | |
| C16:0 | PALMITIC | 9.0 – 14.0 | 10.5 |
| C16:1 | PALMITOLEIC | <0.6 | < 0.6 |
| C18:0 | STEARIC | 3.0 - 5.5 | 5.4 |
| C18:1 | OLEIC | 15.0 – 20.0 | 20.0 |
| C18:2 | LINOLEIC | 35.0 – 40.0 | 36.1 |
| 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.