

CERTIFICATE OF ANALYSIS

PRODUCT NAME: BLACK CUMIN SEED OIL, COLD PRESSED

LOT NUMBER: LOT0000483

PRODUCT INCI: NIGELLA SATIVA SEED OIL

PRODUCT CODE: K0064

CAS NUMBER: 90064-32-7

EINECS NUMBER: 290-094-1

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 06/08/2018

BEST BEFORE DATE: 06/02/2020

| ANALYTICAL DETAILS | RANGE % | RESULTS |
|--|----------------------|---------|
| APPEARANCE | OILY LIQUID | - |
| ODOUR | SPICY CHARACTERISTIC | - |
| COLOUR | YELLOW - ORANGE | - |
| FREE FATTY ACID | <12.5 | 6.25 |
| PEROXIDE VALUE (MEQ O ₂ / KG) | <20.0 | 12.4 |
| SPECIFIC GRAVITY @ 20°C | 0.911 – 0.935 | 0.923 |
| ACID VALUE | <25.0 | 2.9 |
| SAPONIFICATION VALUE | 180.0 – 210.0 | - |

| FATTY ACID PROFILE | | RANGE % | |
|--------------------|---------------|-------------|------|
| C-CHAIN | ACID NAME | | |
| C14:0 | MYRISTIC | <1.0 | - |
| C16:0 | PALMITIC | 8.0 – 15.0 | 12.4 |
| C16:1 | PALMITOLEIC | <1.0 | - |
| C18:0 | STEARIC | <5.0 | 2.9 |
| C18:1 | OLEIC | 18.0 – 30.0 | 23.7 |
| C18:2 | LINOLEIC | 50.0 – 65.0 | 56.7 |
| C18:3 | LINOLENIC | <4.0 | 0.34 |
| C20:0 | ARACHIDIC | <1.0 | - |
| C20:1 | EICOSENOIC | <1.0 | - |
| C20:2 | EICOSADIENOIC | <4.0 | - |
| C22:1 | ERUCIC | <1.5 | - |