



CERTIFICATE OF ANALYSIS

PRODUCT NAME: BRAZIL NUT OIL, REFINED

LOT NUMBER: LOT 0000118

PRODUCT INCI: BERTHOLLETIA EXCELSA SEED

PRODUCT CODE: K0077

CAS NUMBER: 356065-50-4

EINECS NUMBER: 310-127-6

MANUFACTURING METHOD: COLD PRESSED & REFINED

MANUFACTURE DATE: 13/10/2018

BEST BEFORE END: 30/10/2020

| ANALYTICAL DETAILS | RANGE % | RESULTS |
|------------------------------|----------------------|---------|
| APPEARANCE | OILY LIQUID | - |
| COLOUR | CLEAR – LIGHT YELLOW | - |
| COLOUR (LOVIBOND) | <30Y, 2.5R | 20/1.4 |
| ODOUR | ODOURLESS | - |
| SPECIFIC GRAVITY @ 20°C | 0.890 – 0.950 | 0.921 |
| REFRACTIVE INDEX @ 20°C | 1.46 – 1.48 | 1.471 |
| SAPONIFICATION VALUE | 150.0 – 210.0 | 192 |
| UNSAAPONIFIABLE MATTER | <1.5 | 0.5 |
| FREE FATTY ACID (% AS OLEIC) | <1.0 | 0.1 |
| PEROXIDE VALUE | <5.0 | 1.4 |
| IODINE VALUE | 70.0 – 115.0 | 104 |

| FATTY ACID PROFILE | | RANGE % | RESULTS |
|--------------------|-------------|-------------|---------|
| C-CHAIN | ACID NAME | | |
| C14:0 | MYRISTIC | <2.0 | 0,3 |
| C16:0 | PALMITIC | 12.0 – 17.0 | 15.7 |
| C16:1 | PALMITOLEIC | <1.5 | 0.1 |
| C18:0 | STEARIC | 3.0 – 10.0 | 4.3 |
| C18:1 | OLEIC | 30.0 – 45.0 | 42.2 |
| C18:2 | LINOLEIC | 30.0 – 46.0 | 36.2 |
| C18:3 | LINOLENIC | <1.0 | 0.2 |
| C20:0 | ARACHIDIC | <1.0 | 0.5 |
| c20:1 | EICOSENIOIC | <1.0 | 0.2 |
| OTHERS | | <2.0 | 0.1 |

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