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CERTIFICATE OF ANALYSIS

PRODUCT NAME: CRANBERRY SEED OIL, COLD PRESSED

LOT NUMBER: LOT0004066

PRODUCT INCI: VACCINIUM MARCOCARPON OIL

PRODUCT CODE: K0165

CAS NUMBER: 91770-86-6

EINECS NUMBER: 294-875-8

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 04/09/2019

BEST BEFORE DATE: 04/03/2021

| ANALYTICAL DETAILS | | RANGE % | RESULTS |
|-------------------------|--|--------------------|---------|
| APPEARANCE | | OILY LIQUID | - |
| COLOUR | | GREEN – DARK GREEN | - |
| ODOUR | | CHARACTERISTIC | - |
| SPECIFIC GRAVITY @ 20°C | | 0.915 – 0.930 | 0.923 |
| SAPONIFICATION VALUE | | 180.0 – 200.0 | 190.0 |
| ACID VALUE | | <10.0 | 5.0 |
| IODINE VALUE | | 149.0 – 188.0 | 169 |
| PEROXIDE VALUE | | <20.0 | 9.33 |
| FREE FATTY ACID | | <5.0 | 0.77 |

| FATTY ACID PROFILE | | RANGE % | RESULTS |
|--------------------|-----------------|-------------|---------|
| C-CHAIN | ACID NAME | | |
| C16:0 | PALMITIC | 3.0 – 6.0 | 4.7 |
| C16:1 | PALMITOLEIC | <0.5 | 0.26 |
| C18:0 | STEARIC | 0.5 - 2.0 | 1.42. |
| C18:1 | OLEIC | 22.0 – 26.0 | 22.0 |
| C18:2 | LINOLEIC | 30.0 – 38.0 | 34.33 |
| C18:3 | GAMMA LINOLENIC | 30.0 – 38.0 | 30.0 |
| C21:1 | ICOSENOIC | <1.0 | 0.44 |
| C24:0 | TETRACOSANOIC | <1.0 | 0.12 |

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