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Certificate of Analysis Sheet Organic Raspberry Seed Oil (*Rubus idaeus*)

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| BATCH NUMBER: 090421-2 |
| PRODUCT INCI: RUBUS IDAEUS SEED OIL |
| CAS NUMBER: 84929-76-0 |
| EINECS NUMBER: 284-554-0 |
| MANUFACTURING METHOD: COLD PRESSING |
| MANUFACTURING DATE: 30/03/2021 |

| ANALYTICAL DETAILS | RANGE % | RESULTS |
|--|-----------------|---------|
| APPEARANCE | OILY LIQUID | - |
| ODOUR | CHARACTERISTIC | - |
| COLOUR | GOLDEN - YELLOW | - |
| REFRACTIVE INDEX @ 20°C | 1.470 – 1.500 | 1.488 |
| SPECIFIC GRAVITY @ 20°C | 0.920 – 0.940 | 0.932 |
| PEROXIDE VALUE (MEQ O ₂ / KG) | <10.0 | 3.9 |
| FREE FATTY ACID | <5.0 | 0.75 |
| ACID VALUE | <10.0 | 1.5 |

| FATTY ACID PROFILE | | RANGE % | RESULTS |
|--------------------|-----------|-------------|---------|
| C-CHAIN | ACID NAME | | |
| C16:0 | PALMITIC | 2.0 – 7.0 | 5.0 |
| C18:0 | STEARIC | <4.0 | 1.8 |
| C18:1 | OLEIC | 10.0 – 30.0 | 12.0 |
| C18:2 | LINOLEIC | 43.0 – 62.0 | 58.4 |
| C18:3 | LINOLENIC | 10.0 – 30.0 | 22.3 |

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