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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: TOMATO SEED OIL, REFINED**

**LOT NUMBER: LOT0008284**

**PRODUCT INCI: SOLANUM LYCOPERSICUM (TOMATO) SEED**

**PRODUCT CODE: K0465**

**CAS NUMBER: 90131-63-8**

**EINECS NUMBER: 290-375-9**

**MANUFACTURING METHOD: EXPPELLER PRESSED & REFINED**

**MANUFACTURING DATE: 28/09/2020**

**BEST BEFORE DATE: 28/09/2022**

| ANALYTICAL DETAILS           | RANGE %              | RESULTS   |
|------------------------------|----------------------|-----------|
| APPEARANCE                   | OILY LIQUID          | -         |
| COLOUR                       | CLEAR - LIGHT YELLOW | -         |
| ODOUR                        | ODOURLESS            | -         |
| COLOUR (5¼ CELL)             | <30Y, 2.5R           | 14Y, 0.9R |
| SPECIFIC GRAVITY @ 20°C      | 0.915 – 0.925        | 0.919     |
| REFRACTIVE INDEX @ 20°C      | 1.47 – 1.48          | 1.475     |
| SAPONIFICATION VALUE         | 188.0 – 195.0        | 192       |
| FREE FATTY ACID (% AS OLEIC) | <0.6                 | 0.1       |
| PEROXIDE VALUE               | <10.0                | 1.3       |
| IODINE VALUE                 | 120.0 – 135.0        | 130       |
| ACID VALUE                   | <1.0                 | -         |

| FATTY ACID PROFILE |                 | RANGE %     | RESULTS |
|--------------------|-----------------|-------------|---------|
| C-CHAIN            | ACID NAME       |             |         |
| C16:0              | PALMITIC        | 12.0 – 15.0 | 12.7    |
| C18:0              | STEARIC         | 3.0 - 6.0   | 3.8     |
| C18:1              | OLEIC           | 16.0 – 27.0 | 23.9    |
| C18:2              | LINOLEIC        | 50.0 – 60.0 | 55.6    |
| C18:3              | ALPHA LINOLENIC | 0.5 – 4.0   | 2.8     |
| C20:0              | ICOSANOIC       | <0.7        | 0.2     |