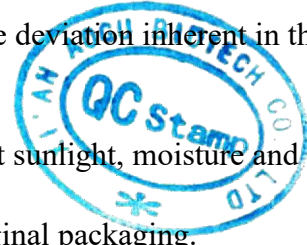


## CERTIFICATE OF ANALYSIS

|                         |   |                         |          |
|-------------------------|---|-------------------------|----------|
| <b>Product Name:</b>    | Vitamin E (dl-alpha tocopheryl acetate) |                         |          |
| <b>INCI Name:</b>       | Tocopheryl Acetate                      |                         |          |
| <b>CAS Number:</b>      | 7695-91-2                               |                         |          |
| <b>Batch Number</b>     | 20221025                                | <b>Manufacture Date</b> | 20221025 |
| <b>Expiration Date:</b> | 36 months from production date          |                         |          |

| Analytical Tests          | Specifications                      | Results       |
|---------------------------|-------------------------------------|---------------|
| Appearance                | Slight yellow, greenish oily liquid | Conforms      |
| Assay                     | ≥98.00%                             | 99.10%        |
| Identification            | Corresponding to A, B, and C        | Conforms      |
| Specific Optical Rotation | -0.01° to +0.01°                    | Conforms      |
| Absorbance (284nm)        | 42.0-45.0                           | Conforms      |
| Absorbance (254nm)        | 7.5-9.0                             | Conforms      |
| Density @ 20°C            | 0.952-0.966 g/mL                    | Conforms      |
| Acid Value                | ≤2.0 mg KOH/g                       | 0.08 mg KOH/g |
| Reference Index           | 1.494-1.498                         | Conforms      |
| Heavy Metals              | ≤10 ppm                             | <10 ppm       |
| Arsenic                   | ≤1 ppm                              | <1 ppm        |
| Cadmium                   | ≤1 ppm                              | <1 ppm        |
| Lead                      | ≤2 ppm                              | <2 ppm        |
| Mercury                   | ≤0.1 ppm                            | <0.1 ppm      |
| Residue on Ignition       | ≤0.10%                              | <0.10%        |
| Residual Solvents         | Meet the requirement                | Conforms      |
| Total Plate Count         | ≤1,000 CFU/g                        | <1,000 CFU/g  |
| Mold & Yeast              | ≤100 CFU/g                          | <100 CFU/g    |
| Coliforms                 | ≤10 CFU/g                           | <10 CFU/g     |
| E. Coli                   | Negative                            | Negative      |
| Staph. Aureaus            | Negative                            | Negative      |
| Salmonella                | Negative                            | Negative      |
| <b>Related Substances</b> |                                     |               |
| Total                     | ≤2.50%                              | 1.20%         |
| Impurity A                | ≤0.50%                              | 0.09%         |
| Impurity B                | ≤1.50%                              | 0.67%         |
| Impurity C (tocopherol)   | ≤1.00%                              | 0.20%         |
| Sum of Impurity D & E     | ≤1.00%                              | 0.0094%       |
| Any Other Impurity        | ≤0.25%                              | <0.25%        |

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.



**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.



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