

Products Name: Mixed Tocopherol

Batch No.: BIOF20221225

Mfg Date: December. 24th, 2022

Report Date: Decemebr 25th, 2022

| Determination | Specification | Results | Method |
|---|--|-----------|-------------|
| PHYSICAL PROPERTIES | | | |
| Appearance | Brownish red to light yellow oily liquid | Conforms | Visual |
| CHEMICAL | | | |
| Tocopherol Content(%) | ≧ 90.0 | 90.74 | GB1886.233 |
| D-α Tocopherol Content(%) | ≧ 20.0 | 11.55 | GB1886.233 |
| D-β Tocopherol Content(%) | ≧ 10.0 | 2.07 | GB1886.233 |
| D-γ Tocopherol Content(%) | 50.0-70.0 | 60.52 | GB1886.233 |
| D-δ Tocopherol Content(%) | 10.0-30.0 | 25.86 | GB1886.233 |
| The above four kinds account for the total tocopherols(%) | ≧ 80.0 | 88.45 | GB1886.233 |
| Acidity/(ml) | ≧ 1.0 | 0.10 | GB1886.233 |
| Rotation | ≧ +24° | Conforms | USP |
| Ash | ≧ 6.0% | 2.40% | USP<.231>11 |
| Lead | ≧ 0.2ppm | 0.0085ppm | AFS |
| Mercury | ≧ 0.02ppm | 0.0029ppm | AFS |
| Cadmium | ≧ 0.4ppm | 0.12ppm | AFS |
| Arsenic | ≧ 0.2ppm | <0.12ppm | AFS |
| MICROBIAL | | | |
| Total Plate Count | ≧ 30,000cfu/g | 410 cfu/g | USP<61> |
| Coliforms | ≧ 10 cfu/g | <10 cfu/g | |

Analyzed by: Danrui Zhao

Approved by: Liwei Chang

