



Provitas® EA1100SF

Product Description-

EA1100SF is a non-GMO, viscous, oily liquid that is clear yellowish to reddish brown in color and standardized in edible vegetable oil. The active ingredient, non-GMO d-α tocopheryl acetate is derived from sunflower oil and is produced by suitable physical and chemical means. EA1100SF is intended for use as a non-GMO natural vitamin E source for the fortification of dietary supplements, foods and personal care products.

| TEST | SPECIFICATIONS |
|-------------------------|--|
| Description: | Clear viscous oil |
| Color: | Yellow to reddish brown |
| Odor: | Typical faint |
| Identification: | Identity (A) Red to orange color develops Optical Rotation (B) $\geq +24^\circ$ GC Peak Retention Time (C) 95.0% - 120.0% |
| Assay: | d-α tocopheryl acetate, IU/g $\geq 1,100$ mg/g ≥ 809 |
| Acid Value: | ml/g < 2.0 |
| Heavy Metals: | Arsenic, ppm <1.5 Cadmium, ppm <0.3 Lead, ppm <1.0 Mercury, ppm <0.2 |
| Microbial purity: | APC, cfu/g $\leq 1,000$ Coliforms, cfu/g <100 Yeast & mold, cfu/g <100 E. Coli, cfu/g Negative Staphylococcus aureus, cfu/g Negative Salmonella, cfu/g Negative |
| Residual Solvents (RS): | USP <467> Meets USP Requirements ¹ |
| Benzo (a) pyrene: | ppb $\leq 1.0^2$ |

1. Specification is informational and not part of release testing but is determined by the use of USP grade vitamin E that meets USP (RS) specifications and no additional solvents used in the production of EA1100SF
2. Specification is informational and not part of release testing but is based on lot specific analysis provided for d-alpha tocopheryl acetate used in the production of EA1100SF

Uses-

EA1100SF is designed for use in oil dispersions, encapsulated products, and food and personal care fortification.

Stability-

The shelf life in sealed, original containers under normal storage conditions is 36 months after the date of manufacture. Stable to acid; unstable to alkali and oxidizing agents. The esterified form of vitamin E is stable to light and oxygen, however, exposure should be limited.

Storage-

Store in tightly closed containers in cool and dry conditions. Protect from heat, light and oxygen. Avoid freezing temperatures.

Packaging-

| PRODUCT CODE PACKAGE / | PACKAGING DETAILS | OPTIMUM ORDER QUANTITIES |
|-----------------------------------|--|--|
| PV16500 50gm Sample | Aluminum bottle, 50ml 50 gram net weight 1.77" x 2.68" (45mm x 68mm) | each / 50gm |
| PV16555 10kg carton | Fiber carton containing 2 x 5kg plastic bottles 10kg net weight 12kg gross weight 12"x8"x12" (31cm x 20cm x 31cm) 1 layer of 15 cartons Maximum 4 layers / pallet | 10kg Per 40" x 48" pallet: 150kg 600kg |
| PV16523 190kg carton | Metal open-head drum 190kg net weight 212kg gross weight 24"x24"x34.5" (61cm x 61cm x 88cm) 1 layer of 4 drums Maximum 1 layer / pallet | 190kg Per 40" x 48" pallet: 760kg 760kg |