



Vernon Walden Inc

PRODUCT DATA SHEET

RRR Alpha Tocopheryl Acetate 514.7 mg/gram Powder U.S.P. Non-GMO (Natural Vitamin E acetate 700 i.u./gram)

DESCRIPTION

RRR-Alpha Tocopheryl Acetate 514.7 mg/gram powder is a stabilized, fine particle, food-grade form of natural Vitamin E acetate developed for use in flour and resulting baked products, beverages, and powdered nutritional premixes. This product is free of any Bioengineered derivatives, manufactured from I.P. certified non-GMO RRR Alpha Tocopheryl Acetate USP (d-alpha tocopheryl acetate), I.P. certified non-GMO Modified food starch, and Silicon Dioxide added as a flow aid.

PARAMETERS	SPECIFICATIONS	METHOD
Appearance:	White - light tan fine powder	Organoleptic
Assay:	489.0 – 617.6 mg/gram (equivalent to 665 – 840 i.u./gram)	USP Modified (Intertek #02006)
RRR Alpha tocopherol equivalence		
Identification: A:	Bright red or orange color develops	USP
B:	Not less than +24°	USP
C:	Retention time corresponds to standard solution	USP
Loss on drying:	5.0% maximum	AOAC 934.01
Heavy Metals: Arsenic:	0.5 ppm maximum	ICP-MS
Cadmium:	0.25 ppm maximum	ICP-MS
Lead:	0.5 ppm maximum	ICP-MS
Mercury:	0.25 ppm maximum	ICP-MS
Microbiological: Total Aerobic Plate Count:	500 CFU/gram maximum	<USP61>
Yeast & Mold:	200 CFU/gram maximum	<USP61>
Salmonella:	Negative	<USP62>
E. Coli:	Negative	<USP62>
Staph. Aureus:	Negative	<USP62>
Pseudomonas:	Negative	<USP62>
Bile Tolerant Gram Neg.	Negative	<USP62>
Particle size, USS, Typical:	99.5% minimum through #40 98% minimum through #60 94% minimum through #80 40% maximum through #200 20% maximum through #325	Internal
Bulk Density, Typical:	0.43-0.54 grams/cc	Internal
Solubility:	Soluble in cold water, with milky appearance	Internal

Residual Solvents: *Meets USP Requirements

**This specification is informational and not part of the release testing of this product. It is determined from the use of USP quality d-alpha tocopheryl acetate oil that meets the USP Residual Solvent limits, and the fact that the only solvent used in the production of this powder is water. We therefore will guarantee all product will comply with the USP limits.*

Benzo(a)pyrene: *1.0 ppb Maximum

**This specification is informational but based on specifications and lot specific analysis provided for the d-alpha tocopheryl acetate used for the production of this powder.*

STABILITY

This product is stable when stored in sealed containers in a cool, dry area protected from light, transition metals, and exposure to alkali. Stability can be affected by other components with which it is mixed. The current shelf life is 30 months, with extension anticipated as validated by ongoing stability studies.

COUNTRY OF ORIGIN

Manufactured in the USA from ingredients of Domestic and Imported origin.

PACKAGING

25 kg. net weight corrugated box lined with two polyethylene bags, closed with stamped security seals.

STORAGE

Store product in airtight, moisture and light resistant packaging in a cool, dry area.