



Certificate of Analysis

Mixed Tocopherols - 95%
 Manufacture date: July 2013
 Expiration date: July 2016
 Batch/Lot# 0001443948

Specification	Result
Description: Amber semitransparent viscous liquid	Conforms
Heavy Metal < 20ppm	negative
Arsenic < 3ppm	negative
Cadmium < 1ppm	negative
Lead < 2ppm	negative
Mercury < 0.1ppm	negative

Microbiology

Total plate count < 1,000 CFU/Gram	negative
Yeast & Mold < 100 CFU	negative
Coliforms Negative	negative
E. Coli Negative	negative
Staph. Aureaus Negative	negative
Salmonella Negative	negative

Assay:	units	limits/minimum	max	Results
Total mixed tocopherols	%	95 minimum	NA	95.6
Alpha-Tocopherol	%	NA	20	13
Beta-Tocopherol	%	NA	NA	1
Gamma-tocopherol	%	NA	NA	59
Delta-tocopherol	%	NA	NA	22

Acidity	ml NaOH/g	1	Conforms
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Shelf life is guaranteed for three years if product is stored in unopened original container at or below 22 degrees centigrade, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and drummed with nitrogen atmosphere for protection. If drums are opened for sampling, be sure to refill drum atmosphere with nitrogen. Drums that have to be opened should be tested at least yearly to ensure potency.