



Certificate of Analysis

Certificate No.: 20150824L-2

Date: August 24, 2015

Retest date: July 31, 2018

Compound Name: All- <i>rac</i> - <i>alfa</i> -Tocopherol EP Impurity A (Mixture of Diastereomers)	
TLC Catalogue Number:	V-045013
CAS Number:	N/A
Molecular Weight:	430.72
Molecular Formula:	C ₂₉ H ₅₀ O ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	1900-095A1
Storage Conditions:	Store at 2-8 °C.

The chemical structure shows a chromanol ring with a hydroxyl group at position 6, methyl groups at positions 2, 4, and 8, and a phytyl side chain at position 2. The phytyl chain is a branched hydrocarbon with methyl groups at positions 1, 3, 5, 7, and 9.

Test Description	Specifications	Results
Visual Description	Pale Brown liquid	Conforms
Identification MS ¹ H NMR	Conforms to structure Conforms to structure	Conforms Conforms
Purity (HPLC)	Not less than 90.0%	94.3%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, MS and NMR spectra.