

Please note that the certificates of analysis are also conveniently available online and around the clock at www.worldaccount.basf.com

2014-03-17
Fr. Dr. Anna Pfeifer
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+49 621 60-52890
Certificate No 7454
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Inspection Certificate 3.1 according to EN 10204

DL-alpha-Tocopherol	Material	50033453
0,1KG Alu-Bottle	Order	6001947079 000010
Purchase Order/Customer Product#	Delivery	3093084926 000010
Email: Ruchi Vora	Lot	2204198800
00000000050033453	Lot/Qty	0.300 KG
	Total	0.300 KG

Test Parameter	Requirements	UoM	Results
Appearance	viscous, yellow to brown oil		conforms
Identification (GC) (Retention Time)	must conform		conforms
Optical rotation	Min.: -0.01 Max.: +0.01	degree	+0.00
Acidity	must conform		conforms
Related substances (impurity A)	Max.: 0.5	Area-%	0.4
Related substances (impurity B)	Max.: 1.5	Area-%	1.2
Related substances (sum of impurity C and D)	Max.: 1.0	Area-%	0.2
Related substances (any other impurity)	any other impurity max.0,25 Area-%		conforms
Related substances (total impurities)	Max.: 2.5	Area-%	2.0

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

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Test Parameter	Requirements	UoM	Results
Assay Tocopherol (GC) (USP)	Min.: 96.0 Max.: 102.0	g/100g	96.7
Assay Tocopherol (GC) (FCC)	Min.: 1056 Max.: 1122	I.U./g	1064
Assay Tocopherol (Ph.Eur)	Min.: 96.0 Max.: 102.0	g/100g	97.6
Refractive index *	must conform (min.: 1,503 max.: 1,507)		conforms
Specific absorbance * (at max. 292 nm in ethanol)	must conform (min. 72, max. 76)		conforms
Sulphated ash *	must conform (max. 0.1 g/100g)		conforms
Arsenic *	must conform (max.1mg/kg)		conforms
Lead *	must conform (max.2mg/kg)		conforms
Cadmium *	must conform (max.1mg/kg)		conforms
Mercury *	must conform (max.0,1mg/kg)		conforms
Zinc *	must conform (max.:10mg/kg)		conforms

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Test Parameter	Requirements	UoM	Results
Heavy metals *	must conform (max.10mg/kg)		conforms
Residual solvent* (methanol)	must conform (max.3000mg/kg)		conforms
Residual solvent* (heptane)	must conform (max.0,5g/100g)		conforms

* test is verified on random samples

The product meets the specifications of following monographs:

"all-rac-alpha-Tocopherol" of Ph.Eur. 8th Edition
"Vitamin E" of USP36/NF31
"all-rac-alpha-Tocopherol" of FCC 8th ed. ,
"E 307" EC food additives directive

Manufacturer: BASF SE
Carl-Bosch-Str.38
67056 Ludwigshafen
Germany

QC-Reference-No. 14C01608

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00000000050033453	Lot/Qty	0.300 KG
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Production date	04.02.2014
Release date	19.02.2014
Retest date	03.02.2017

BASF SE
Competence Center Analytic
Quality Control
sig. Fr. Fournier
QC-Representative

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