





Fax No 00302105579384

Astron Chemicals S.A. Tax-No. EL094468327

Thessis Kirilo

19300 Aspropyrgos

Greece

2020-02-14 ENT/OQA

Hr. Dr. Florian Wildschek florian.wildschek@basf.com

Certificate No 1416

Page 1 of 4

## Inspection Certificate 3.1 according to EN 10204

Vitamin E Acetate 98% Material 50315393

Order 3016257328 000010 25KG Plastic drums Delivery 3192839228 000010

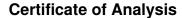
 Purchase Order/Customer Product#
 Lot
 21427947G0

 1910491
 Lot/Qty
 1350.000 KG

 Total
 1350.000 KG

Transport 0000000000936073534

Test Parameter	Requirements	UoM	Results
Appearance	viscous light yellow 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-%	<0.1
Related substances (Impurity B)	Max.: 1.5	Area-%	<0.1
Related substances (Impurity C)	Max.: 0.5	Area-%	0.3
Related substances (sum of impurity D and E)	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-%	0.5







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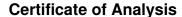
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Test Parameter	Requirements	UoM	Results
Arsenic *	must conform (max.: 1 mg/kg)		conforms
Lead *	must conform (max.:2mg/kg)		conforms
Cadmium *	must conform (max.:1mg/kg)		conforms
Mercury*	must conform (max.:0,1mg/kg)		conforms
Zinc *	must conform (max.:10mg/kg)	)	conforms
Heavy metals *	must conform (max.10mg/kg)		conforms
Assay DL-alpha-Tocopheryl acetate (GC) (Ph.Eur.)	Min.: 98.0 Max.: 102.0	g/100g	98.8
Assay DL-alpha-Tocopheryl acetate (GC) (USP)	Min.: 98.0 Max.: 102.0	g/100g	98.9
Assay DL-alpha-Tocopheryl acetate (GC) (FCC)	Min.: 980 Max.: 1020	I.U./g	989
Residual solvent * methanol	must conform (max.3000mg/kg)		conforms







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Test Parameter Requirements UoM Results

Residual solvent \* heptane must conform conforms (max.0,5g/100g)

\* test verified on random samples

The product meets the specifications of following monographs:

"all-rac-alpha-Tocopheryl Acetate" of Ph.Eur.10th ed.

Manufacturer: BASF SE

Carl-Bosch-Str.38 67056 Ludwigshafen

Germany

QC-Reference-No. 20C00341

Production date (YYYY-MM-DD) 2020-01-07

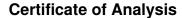
Release date (YYYY-MM-DD) 2020-01-29

Retest date (YYYY-MM-DD) 2023-01-06

<sup>&</sup>quot;all-rac-alpha-Tocopheryl Acetate" of FCC 11th ed.

<sup>&</sup>quot;Vitamin E" of USP42/NF37

<sup>&</sup>quot;Tocopheryl Acetate" IP 2018





BTC Europe GmbH

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BASF SE Quality Assurance - Release sig. Fr. Surdmann QA-Representative