🥑 Celanese

Celanese Sales U.S. Ltd. Suite 900N 222 W. Las Colinas Blvd., IRVING TX 75039 USA

MAYS CHEMICAL - NEW JERSEY **134 CLINTON ROAD** FAIRFIELD NJ 07004 USA

Certificate of Analysis

Nutrinova® Potassium Sorbate Granular; 40 x 25 kg sack on pallet

Customer No.:	2131278
Material No.:	20008709
Customer Material:	10460000
Produced at:	Frankfurt
Produced on:	28 Aug 20
Best before date:	27 Aug 20
Country of origin:	Germany

9 00-2100 am Main 2018 2021 Germany

Cert Issue Date: Qty Shipped: Customer PO No.:

12 Oct 2018 14,000.000 KG Order Item /date: 2045651 10 / 28 Aug 2018 Delivery item/date: 85823372 900002 / 09 Oct 2018 1-021-00-78585-0

Batch 0001111404

Characteristic	(Method)	UoM	Value	
Abs. max. (in Water)	(UV)	nm	263.4	262.0 - 266.0
Alkalinity (calc. as K2CO3)	(FCC, Titrimetric)	%	0.04	max. 0.10
Appearance	VISUAL		white to yellowish-white granular	
Assay	(FCC, Titrimetric)	%	100.1	99.0 - 101.0
Heat Test (90 min/105IC)	(EC)		no discoloration	
Identity Potassium	(FAO / WHO)		Pass	
Identity Sorbate	(UV)		Pass	
pH-value (10% solution)	(potentiometric)		10.0	8.5 - 10.5
Water content	(Karl Fischer)	%	0.05	max. 0.50

The following values are based upon statistical evaluation and are adhered to with each batch.

Aldehydes (as Formaldehyde)	(FCC, Limit-Test)	%	< 0.10	max. 0.10
Heavy metals (calc. as lead)	(Limit-Test)	ppm	< 10	max, 10
Lead	(ICP MS)	ppm	< limit of detection	0.02 - 0.10
Arsenic	(ICP MS)	ppm	< limit of detection	0.02 - 0.10
Mercury	(AAS)	ppm	< limit of detection	0.01 - 0.01
Cadmium	(ICP MS)	ppm	< limit of detection	0.02 - 0.02
Zinc	(ICP MS)	ppm	< limit of detection	0.04 - 0.10
Chloride	(IC, JSFA)	ppm	25.8	0.0 - 100.0
Sulfate	(IC)	ppm	< 150.0	0.0 - 150.0

Manufacturer (registered office address:

MCC PRODUCT CODE # 104600000

DISTRIBUTED BY MAYS CHEMICAL CO, INC.



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Customer No.:	2131
Material No.:	2000
Customer Material:	1046
Produced at:	Frank
Produced on:	28 Au
Best before date:	27 Au
Country of origin:	Germ

2131278 20008709 104600000-2100 Frankfurt am Main 28 Aug 2018 27 Aug 2021 Germany

Cert Issue Date: Qty Shipped: Order Item /date: Delivery item/date: Customer PO No.:

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Celanese Production Germany GmbH & Co. KG, Am Unisys-Park 1, 65843 Sulzbach (Taunus), Germany Production Facility: Sorbates Plant, Building D 420, Industriepark Hichst, 65926 Frankfurt / Main, Germany.

Nutrinova Potassium Sorbate meets the purity specifications of the current Celanese Food Ingredients product specification and conforms further on to the purity specifications published by FAO/WHO, those of the Food Chemicals Codex, those of the JSFA and the EU Regulation 231/2012 as amended, the regulations on preservatives applicable in the Federal Republic of Germany and other national food laws. The existing legal restrictions for the use in foods, drugs and cosmetics must be observed. Nutrinova Potassium Sorbate is as a component of food fit for human consumption.

Nutrinova Potassium Sorbate and its raw materials are manufactured synthetically.

Allergens Statement:

Nutrinova Potassium Sorbate does not contain substances having allergenic properties, for which labelling is required and complies with the Regulation (EU) 1169/2011, the US Food Allergen Labeling and Consumer Protection Act of 2004 and the Japanese Food Sanitation Law.

GMO Statement:

Nutrinova Potassium Sorbate is considered NOT genetically modified or NOT derived from a genetically modified organism as defined by the EC regulations 1830/2003/EC on labeling and traceability and 1829/2003/EC on genetically modified food and feed and their amending legislation.

Nano Statement:

Neither nanoparticles nor nanotechnology is intentionally used in the manufacturing process of Nutrinova Potassium Sorbate.

The test results refer exclusively to the examined sample taken from the above-mentioned lot. Any copying of the test report, whether in part or in full, is not allowed without Celanese Food Ingredients's permission.

Retain sample policy:

Please be informed, that since January 1st, 2012 we store retain samples of Nutrinova Sorbic Acid and Nutrinova Potassium Sorbate for 4



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years from date of manufacture.

If you have any concerns with this shipment, please contact our Customer Service at phone 888-207-5517 .

Celanese Food Ingredients

Frank G⊡rgen. Quality Inspector