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 4904 SK OOSTERHOUT (NB)
 NIEDERLANDE

Jungbunzlauer

Certificate of Analysis

Creation date	Your order no. / Date	Delivery note / Date of dispatch		
09.03.2017	241006351 / 03.03.2017	80620073 000010 / 09.03.2017		
Our reference / Date	Client number	Date of arrival		
581084 000010 / 03.03.2017	200136	10.03.2017		
Material / Product / Description		Country of origin: DE		
127797 / / Trimagnesium Citrate Anhydrous USP/Ph.Eur fine in 20 kg bags				
Shipping point				
Jungbunzlauer Ladenburg GmbH Industriegebiet 1 / Altwasser Nord 68526 Ladenburg				
Batch	Quantity	Date of production	Date of expiry	Production plant
3042741	2.400 KG	12.11.2016	11.2019	Ladenburg, Germany

Characteristics:

White to almost white powder, practically odorless, soluble in water, easily soluble in dilute acid, practically insoluble in ethanol (96%).

Parameter	Unit	Specification		Value
Characteristics				conforms
Identification				conforms
Appearance of solution				conforms
pH USP (5%)		5,0	- 9,0	6,5
pH Ph. Eur. (5%)		6,0	- 8,5	6,6
Sulphate	mg/kg		<= 2000	<= 2000
Calcium	mg/kg		<= 2000	<= 2000
Iron	mg/kg		<= 100,0	2,9
Oxalic acid /oxalates	mg/kg		<= 280	<= 280 *
Heavy metals as lead	mg/kg		<= 10	<= 10
Loss on drying USP (135°C; 16h)	%		<= 2,0	0,0
Loss on drying Ph. Eur. (180°C; 5h)	%		<= 3,5	1,5
Chloride	mg/kg		<= 500	<= 500
Arsenic	mg/kg		<= 3	<= 3 *
Organic volatile impurities				conforms*
Assay (Mg, on dried basis)	%	15,0	- 16,4	15,5

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.) and the United States Pharmacopoeia (USP). All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP or equivalent methods. Test methods are available on request.

*) analysis is confirmed based on In-Process-Control or by random testing.

**) Date of expiry printed on the packaging may differ from that of the CoA by one month if the lot had been produced over the end of the month.

This computer generated certificate is valid without signature.

Dr. Jochen Jung
 Quality Control Manager

ISO 9001:2008 certified by DNV Zertifizierung und Umweltgutachter GmbH.

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Steuernummer: 47024/02502

Deutsche Bank Mannheim EUR und USD
 IBAN DE 78 6707 0010 0013 3553 00 Swift DEUTDE33

SEB AG Merchant Banking
 EUR IBAN DE 67 5122 0200 0033 4240 27 Swift ESSEDEFF
 USD IBAN DE 18 5122 0200 0033 4240 36 Swift ESSEDEFF

HRB 1502 Amtsgericht Mannheim
 UST.ID NR. DE144460377
 Geschäftsführer:
 Dr. Michael Alexandrow
 Werner Probst