

Dr. Paul Lohmann GmbH & Co. KGaA - Postfach 12 20 - D-31857 Emmerthal

Dr. Paul Lohmann France SARL
10-12 allée de la Connaissance
Carré Hausmann II
F-77127 Lieusaint
FRANCE

Batch No 3150629
Released by Thomas Poppe
Man./Release Date 02/12/2024
Retest Date 01/12/2027

Certificate of Analysis

Magnesium Bisglycinate

Fine powder, acc. to customers requirements

Our. conf. No O12408510
Your order P72401120
Quantity 950.0 kg
DPL-Code No 505083002
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Printing Date Emmerthal, 12/12/2024

Parameters	Limits	Results
Description	fine powder	fine powder
Colour	white or almost white	white or almost white
pH (1 %)	9.5-10.5	10.2
Arsenic (As)	max. 3 mg/kg	< 3 mg/kg
Lead (Pb)	max. 3 mg/kg	< 3 mg/kg
Cadmium (Cd)	max. 1 mg/kg	< 1 mg/kg
Mercury (Hg)	max. 0.1 mg/kg	< 0.1 mg/kg
Loss on drying (105°C/3h)	max. 7.0 %	2.2 %
Assay Mg	min. 19.0 %	21.0 %

The product contains citric acid

This quality contains magnesium oxide.

Manufacturer:
Dr. Paul Lohmann GmbH & Co. KGaA, Hauptstrasse 2, D-31860 Emmerthal



(QC Manager)

The product has been tested and found in compliance with above stated parameters. Above information does, however, not release customer from making his own controls upon receipt of goods.



CERTIFICATE OF ANALYSIS

Vitamin B6 powder Pyridoxal-5-Phosphate

Batch Number	R24L07126	Country Of Origin	United States
Manufacture Date	12-15-2023	Expire Date	12-14-2026

Items	Specification	Results	Test Methods
Physical Analysis			
Description	Powder	Complies	Organoleptic
Color	Slightly yellow or off-white	Complies	Organoleptic
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Complies	Organoleptic
Mesh size	90% Passes through #30 mesh	Complies	USP<786>
Identification	The retention time of the major peak of product corresponds to that of the standard	Complies	USP
Solubility	Very slightly soluble in water, soluble in alkali-OH solution	Complies	USP<1236>
Melting point	140.0-145.0 °C	144.0 °C	USP<741>
Assay (On dry basis)	98.5-101.0%	99.6%	USP
Bulk density	NLT 0.30 g/ml	0.32 g/ml	USP<616>
Tapped density	NLT 0.70 g/ml	0.75 g/ml	USP<616>
Water	NMT 10%	8.2%	Karl Fischer Titration
Ph (in 0.25% water)	2.6-3.0	2.8	USP<791>
B6, Free Vitamin B6	NMT 0.05%	Not Detected	USP
Total Heavy Metals			
Total Heavy Metals	NMT 10 ppm	Complies	USP<231>
Lead	NMT 0.5 ppm	0.07 ppm	USP<232>
Arsenic	NMT 1.5 ppm	0.031 ppm	USP<232>
Mercury	NMT 0.1 ppm	0.005 ppm	USP<232>
Cadmium	NMT 0.5 ppm	0.008 ppm	USP<232>
Microbiology Test			
Total Plate count	NMT 10,000 cfu/g	8 cfu/g	USP<2021>
Yeast & Mold	NMT 1000 cfu/g	7 cfu/g	USP<2021>
E. coli	Negative	Negative	USP<2022>
Salmonella	Negative	Negative	USP<2022>
Staphylococcus aureus	Negative	Negative	USP<2022>

Miscellaneous: GMO Free, BSE/TSE Free. **Shelf Life:** 36 Months **Packaging & Storage:** Packed in a well-closed container. Store in a cool & dry place at suitable humidity and temperature. Keep away from heat & direct sunlight. **Remarks:** Passes as per given specification. **Disclaimer:** Computer-generated document.



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CERTIFICATE OF ANALYSIS

2024. 10. 09

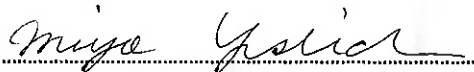
TAISHO MTC LTD.

Quality Assurance Section

<TAURINE>

Lot No.	K24A13820
Manufacturing Date	2024. 10. 08
Retest Date	2027. 10. 07

Item	Specification	Analytical Result
Description	Colorless or white crystals, or white crystalline powder. Odorless.	Passes
Identification	Positive	Positive
Purity test		
(1) Clarity and color of solution	Clear and colorless	Passes
(2) Chloride	Not more than 0.010%	Passes
(3) Sulfate	Not more than 0.010%	Passes
(4) Ammonium	Not more than 0.02%	Passes
(5) Heavy metals	Not more than 10ppm	Passes
(6) Arsenic	Not more than 1ppm	Passes
(7) Readily carbonizable substances	No color develops	Passes
(8) Transmittance	Not less than 98.0%	Passes
pH	4.1 ~ 5.6	4.8
Loss on drying	Not more than 0.20%	0.02 %
Residue on ignition	Not more than 0.10%	0.01 %
Assay (Purity)	Not less than 99.0%	99.7 %


 Manager of QA Section, Omuta Factory
 TAISHO MTC LTD.

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 TAISHO MTC LTD.

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