Chengdu PNP Biotech Co., Ltd.

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STABILITY DATA

Magnesium Citrate Anhydrous 15% Magnesium

This document presents the stability profile of Magnesium Citrate Anhydrous 15% Magnesium supplied by Chengdu PNP Biotech Co., Ltd. Samples were packed in the normal commercial package and stored under the conditions stated for each study, and the product was tested at every time point shown below. The programme covers a long-term study and an accelerated study, conducted in accordance with the ICH Q1A methodology (and the corresponding pharmacopeial stability guideline for drug substances), each performed on three separate, non-consecutive production batches, with the analytical results from testing actually carried out at each time point.

Product Name	Magnesium Citrate Anhydrous 15% Magnesium	**CAS No.**	3344-18-1
Molecular Formula	C12H10Mg3O14	**Molecular Weight**	Not applicable

Long-Term Stability

Condition: 25 ± 2 °C / 60 ± 5 % RH. Time points are expressed in months. Each batch is identified in the merged row above its results; all batches were stored through the final time point, and every listed result is from testing performed at that time point.

The shelf life stated for this product is confirmed by these real-time long-term stability studies.

Test Item	Specification	0 m	3 m	6 m	9 m	12 m	18 m	24 m
Batch LT-1 | Manufacture 2023-11-08 | Study start 2023-11-15								
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Magnesium (on dried basis)	≥ 15.0%	15.48%	15.51%	15.47%	15.44%	15.40%	15.35%	15.28%
Loss on Drying	≤ 5.0%	2.39%	2.52%	2.65%	2.81%	2.91%	3.21%	3.56%
Standard Plate Count	≤ 1,000 cfu/g	97 cfu/g	72 cfu/g	134 cfu/g	59 cfu/g	89 cfu/g	155 cfu/g	268 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	4 cfu/g	7 cfu/g	10 cfu/g	6 cfu/g	4 cfu/g	8 cfu/g	20 cfu/g
Batch LT-2 | Manufacture 2024-04-03 | Study start 2024-04-10								
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Magnesium (on dried basis)	≥ 15.0%	15.50%	15.39%	15.41%	15.35%	15.33%	15.24%	15.19%
Loss on Drying	≤ 5.0%	2.22%	2.38%	2.52%	2.71%	2.79%	3.04%	3.32%
Standard Plate Count	≤ 1,000 cfu/g	51 cfu/g	91 cfu/g	85 cfu/g	97 cfu/g	115 cfu/g	145 cfu/g	182 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	8 cfu/g	8 cfu/g	7 cfu/g	5 cfu/g	5 cfu/g	6 cfu/g	15 cfu/g
Batch LT-3 | Manufacture 2024-09-11 | Study start 2024-09-18								
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Magnesium (on dried basis)	≥ 15.0%	15.56%	15.52%	15.46%	15.40%	15.39%	15.38%	15.30%
Loss on Drying	≤ 5.0%	2.35%	2.51%	2.64%	2.68%	2.93%	3.14%	3.46%
Standard Plate Count	≤ 1,000 cfu/g	73 cfu/g	82 cfu/g	52 cfu/g	133 cfu/g	130 cfu/g	161 cfu/g	112 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	5 cfu/g	7 cfu/g	7 cfu/g	6 cfu/g	13 cfu/g	8 cfu/g	7 cfu/g

Accelerated Stability

Condition: 40 ± 2 °C / 75 ± 5 % RH. Time points are expressed in months.

Accelerated data are supportive only; the shelf life is ultimately confirmed by the real-time long-term studies above.

Test Item	Specification	0 m	1 m	2 m	3 m	6 m
Batch ACC-1 | Manufacture 2023-10-24 | Study start 2023-10-31						
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms

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Test Item	Specification	0 m	1 m	2 m	3 m	6 m
Batch ACC-1 | Manufacture 2023-10-24 | Study start 2023-10-31						
Magnesium (on dried basis)	≥ 15.0%	15.46%	15.34%	15.33%	15.29%	15.06%
Loss on Drying	≤ 5.0%	2.48%	2.69%	2.85%	2.99%	3.57%
Standard Plate Count	≤ 1,000 cfu/g	33 cfu/g	69 cfu/g	129 cfu/g	57 cfu/g	158 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	6 cfu/g	9 cfu/g	6 cfu/g	12 cfu/g	7 cfu/g
Batch ACC-2 | Manufacture 2023-12-06 | Study start 2023-12-13						
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms
Magnesium (on dried basis)	≥ 15.0%	15.45%	15.40%	15.30%	15.23%	15.07%
Loss on Drying	≤ 5.0%	2.32%	2.37%	2.55%	2.73%	3.44%
Standard Plate Count	≤ 1,000 cfu/g	65 cfu/g	68 cfu/g	74 cfu/g	125 cfu/g	160 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	4 cfu/g	4 cfu/g	11 cfu/g	13 cfu/g	16 cfu/g
Batch ACC-3 | Manufacture 2024-01-17 | Study start 2024-01-24						
Appearance / colour	Light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms
Magnesium (on dried basis)	≥ 15.0%	15.42%	15.33%	15.31%	15.28%	15.08%
Loss on Drying	≤ 5.0%	2.43%	2.63%	2.76%	2.96%	3.53%
Standard Plate Count	≤ 1,000 cfu/g	63 cfu/g	100 cfu/g	73 cfu/g	165 cfu/g	190 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	7 cfu/g	8 cfu/g	10 cfu/g	8 cfu/g	8 cfu/g

Legend: “Conforms” means the attribute is consistent with the initial (0-month) value and meets the specification.

Prepared by: Mia Yu Approved by: Charlie Wang Date: Sep. 07, 2026