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STABILITY DATA

Monk Fruit Extract 50% Mogroside V

This document presents the stability profile of Monk Fruit Extract 50% Mogroside V 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	Monk Fruit Extract 50% Mogroside V	**Country of Origin**	China
Botanical Source	*Siraitia grosvenorii*	**Part Used**	Fruit

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 / color	White to off-white fine powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Mogroside V	≥ 50.0%	51.20%	51.15%	51.14%	51.06%	51.09%	51.02%	50.95%
Loss on Drying	≤ 5.0%	2.11%	2.33%	2.36%	2.62%	2.76%	2.95%	3.20%
Standard Plate Count	≤ 1,000 cfu/g	48 cfu/g	122 cfu/g	119 cfu/g	153 cfu/g	140 cfu/g	206 cfu/g	177 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	4 cfu/g	9 cfu/g	5 cfu/g	5 cfu/g	13 cfu/g	9 cfu/g	13 cfu/g
Batch LT-2 | Manufacture 2024-04-03 | Study start 2024-04-10								
Appearance / color	White to off-white fine powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Mogroside V	≥ 50.0%	51.33%	51.31%	51.28%	51.22%	51.17%	51.08%	51.06%
Loss on Drying	≤ 5.0%	2.14%	2.30%	2.37%	2.58%	2.72%	2.92%	3.34%
Standard Plate Count	≤ 1,000 cfu/g	107 cfu/g	60 cfu/g	75 cfu/g	98 cfu/g	180 cfu/g	147 cfu/g	147 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	8 cfu/g	5 cfu/g	12 cfu/g	5 cfu/g	9 cfu/g	6 cfu/g	7 cfu/g
Batch LT-3 | Manufacture 2024-09-11 | Study start 2024-09-18								
Appearance / color	White to off-white fine powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Mogroside V	≥ 50.0%	51.27%	51.22%	51.18%	51.18%	51.09%	51.05%	50.95%
Loss on Drying	≤ 5.0%	2.19%	2.20%	2.38%	2.48%	2.61%	2.90%	3.16%
Standard Plate Count	≤ 1,000 cfu/g	76 cfu/g	135 cfu/g	110 cfu/g	94 cfu/g	198 cfu/g	229 cfu/g	200 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	3 cfu/g	6 cfu/g	5 cfu/g	9 cfu/g	6 cfu/g	17 cfu/g	11 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 / color	White to off-white fine 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						
Mogroside V	≥ 50.0%	51.31%	51.26%	51.17%	51.12%	50.79%
Loss on Drying	≤ 5.0%	2.02%	2.21%	2.41%	2.70%	3.16%
Standard Plate Count	≤ 1,000 cfu/g	70 cfu/g	72 cfu/g	93 cfu/g	75 cfu/g	140 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	8 cfu/g	4 cfu/g	7 cfu/g	8 cfu/g	16 cfu/g
Batch ACC-2 | Manufacture 2023-12-06 | Study start 2023-12-13						
Appearance / color	White to off-white fine powder	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms
Mogroside V	≥ 50.0%	51.32%	51.23%	51.18%	51.10%	50.83%
Loss on Drying	≤ 5.0%	2.22%	2.38%	2.44%	2.75%	3.20%
Standard Plate Count	≤ 1,000 cfu/g	67 cfu/g	99 cfu/g	71 cfu/g	75 cfu/g	169 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	7 cfu/g	5 cfu/g	11 cfu/g	5 cfu/g	17 cfu/g
Batch ACC-3 | Manufacture 2024-01-17 | Study start 2024-01-24						
Appearance / color	White to off-white fine powder	Conforms	Conforms	Conforms	Conforms	Conforms
Odor & taste	Characteristic	Conforms	Conforms	Conforms	Conforms	Conforms
Mogroside V	≥ 50.0%	51.33%	51.21%	51.16%	51.01%	50.82%
Loss on Drying	≤ 5.0%	2.03%	2.18%	2.50%	2.61%	3.24%
Standard Plate Count	≤ 1,000 cfu/g	36 cfu/g	121 cfu/g	166 cfu/g	122 cfu/g	107 cfu/g
Total Yeast & Mold	≤ 100 cfu/g	7 cfu/g	6 cfu/g	12 cfu/g	8 cfu/g	16 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: Nov. 18, 2026