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STABILITY DATA

Panax Ginseng Extract 10% Ginsenosides

This document presents the stability profile of Panax Ginseng Extract 10% Ginsenosides 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	Panax Ginseng Extract 10% Ginsenosides	**Country of Origin**	China
Botanical Source	*Panax ginseng* C.A.Mey.	**Part Used**	Root

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	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.33%	10.34%	10.28%	10.26%	10.24%	10.16%	10.10%
Loss on Drying	≤ 5.0%	2.37%	2.51%	2.62%	2.80%	3.01%	3.27%	3.40%
Standard Plate Count	≤ 5,000 cfu/g	502 cfu/g	468 cfu/g	584 cfu/g	722 cfu/g	528 cfu/g	700 cfu/g	503 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	16 cfu/g	22 cfu/g	35 cfu/g	34 cfu/g	25 cfu/g	29 cfu/g	44 cfu/g
Batch LT-2 | Manufacture 2024-04-03 | Study start 2024-04-10								
Appearance / color	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.35%	10.35%	10.36%	10.27%	10.28%	10.24%	10.16%
Loss on Drying	≤ 5.0%	2.35%	2.59%	2.67%	2.82%	3.00%	3.22%	3.48%
Standard Plate Count	≤ 5,000 cfu/g	467 cfu/g	203 cfu/g	427 cfu/g	763 cfu/g	536 cfu/g	726 cfu/g	1,216 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	10 cfu/g	27 cfu/g	29 cfu/g	38 cfu/g	41 cfu/g	39 cfu/g	53 cfu/g
Batch LT-3 | Manufacture 2024-09-11 | Study start 2024-09-18								
Appearance / color	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.34%	10.28%	10.23%	10.25%	10.16%	10.15%	10.09%
Loss on Drying	≤ 5.0%	2.37%	2.46%	2.72%	2.77%	3.00%	3.13%	3.46%
Standard Plate Count	≤ 5,000 cfu/g	263 cfu/g	539 cfu/g	563 cfu/g	509 cfu/g	547 cfu/g	941 cfu/g	779 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	10 cfu/g	14 cfu/g	33 cfu/g	25 cfu/g	35 cfu/g	48 cfu/g	56 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	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.30%	10.23%	10.21%	10.14%	10.10%
Loss on Drying	≤ 5.0%	2.29%	2.50%	2.71%	2.97%	3.44%
Standard Plate Count	≤ 5,000 cfu/g	204 cfu/g	457 cfu/g	597 cfu/g	692 cfu/g	1,023 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	23 cfu/g	12 cfu/g	32 cfu/g	39 cfu/g	63 cfu/g

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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						
Batch ACC-2 | Manufacture 2023-12-06 | Study start 2023-12-13						
Appearance / color	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.35%	10.23%	10.23%	10.20%	10.09%
Loss on Drying	≤ 5.0%	2.25%	2.46%	2.50%	2.80%	3.40%
Standard Plate Count	≤ 5,000 cfu/g	280 cfu/g	461 cfu/g	686 cfu/g	847 cfu/g	1,366 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	21 cfu/g	29 cfu/g	22 cfu/g	40 cfu/g	36 cfu/g
Batch ACC-3 | Manufacture 2024-01-17 | Study start 2024-01-24						
Appearance / color	Fine yellow to light yellow powder	Conforms	Conforms	Conforms	Conforms	Conforms
Ginsenosides	≥ 10.0%	10.33%	10.29%	10.24%	10.25%	10.12%
Loss on Drying	≤ 5.0%	2.33%	2.45%	2.68%	2.78%	3.39%
Standard Plate Count	≤ 5,000 cfu/g	489 cfu/g	642 cfu/g	639 cfu/g	421 cfu/g	1,107 cfu/g
Total Yeast & Mold	≤ 300 cfu/g	25 cfu/g	21 cfu/g	35 cfu/g	14 cfu/g	45 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. 17, 2026