TECHNICAL DATA SHEET

Water-Soluble Avenanthramides (Dihydroavenanthramide D Monosodium Salt)

PH-XPNS 002 • Revision 1.1 • Issued 20 September 2026

Commercial water-soluble monosodium salt grade for cosmetic formulation evaluation. Product identity, assay basis and batch results must be matched to the corresponding COA.

1. Product identification

Product code	PH-XPNS 002
Commercial name	Water-Soluble Avenanthramides
Chemical form	Dihydroavenanthramide D Monosodium Salt
INCI name	HYDROXYPHENYL PROPAMIDOBENZOIC ACID (as listed in current product documentation)
CAS information	697235-49-7 identifies the parent acid. A distinct CAS number for the supplied monosodium salt has not been independently confirmed.
Product page	https://pinhoningredients.com/products/water-soluble-avenanthramides/

2. Product description

PH-XPNS 002 is the water-soluble monosodium salt form of Dihydroavenanthramide D, supplied as an off-white powder. It is intended for cosmetic formulation screening where a water-soluble form is required. It is a separate commercial form from PH-SynBio 002 neat powder and from premixed solutions.

3. Current quality specification — identity and physical quality

Parameter	Requirement
Purity	≥98.0% by HPLC
Identification	HPLC, ^{1}H NMR and LC-MS: conforms
Appearance	Off-white powder
Odour	Characteristic
Individual impurity	≤1.0%
Loss on drying	≤3.0%
Solution appearance	Colourless and clear, 5% solution
Solution stability	No precipitation for >60 days under the validated water/ethanol/sample ratio of 75/20/5
Particle size	95% passing 80 mesh
Solubility	Water-soluble commercial grade

The current recorded batch COA reported 99.79% purity. That value is a batch result, not the universal release specification. Use the COA issued for the delivered batch for acceptance.

4. Current quality specification — elemental and microbiological limits

Parameter	Requirement
Arsenic (As)	≤2.0 mg/kg
Lead (Pb)	≤2.0 mg/kg
Mercury (Hg)	≤0.1 mg/kg
Cadmium (Cd)	≤1.0 mg/kg
Total plate count	≤1,000 CFU/g
Yeasts and molds	≤100 CFU/g
Escherichia coli	Not detected in 1 g
Salmonella spp.	Not detected in 1 g

COA lot PHHPA26072501 (100 kg): manufactured 25 July 2026; analysed 05 August 2026; expiry 24 July 2028. The lot conformed to every specification listed above.

5. Formulation guidance

- Evaluate addition through the aqueous phase or another suitable water-containing premix.
- Confirm clarity, precipitation, color and assay stability in the complete formulation.
- Establish the final use level through formula-specific safety assessment, compatibility testing and claim substantiation; no universal use level is stated in this document.
- Check processing temperature, pH, electrolytes, surfactants, preservatives and packaging in the intended formula before scale-up.

6. Suggested applications

Cosmetic formulation research for sensitive-skin, skin-comfort and barrier-support concepts, including suitable leave-on and rinse-off formats. Ingredient information does not by itself establish a finished-product efficacy or tolerance claim.

7. Packaging

Current COA description	Double plastic bags inside an unbranded fibre drum
Commercial pack options	1 kg/bag or 25 kg/drum, subject to written order confirmation
Labelling	Final packaging and label details follow the confirmed order and corresponding batch documents.

8. Storage and shelf life

Storage	Keep sealed in a cool, dry place. Protect from light and moisture.
Shelf life	24 months in the unopened original package under the stated storage conditions.
After opening	Reseal promptly and prevent moisture or cross-contamination.

9. Safety and handling

Avoid generating or breathing dust. Avoid contact with eyes and prolonged or repeated skin contact. Wear suitable gloves and eye protection during industrial handling. Consult the corresponding MSDS/SDS before use.

10. Document control

Document	Technical Data Sheet
Revision	1.1
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Prepared by	Shaanxi Pinhon Biotechnology Co., Ltd.
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This document describes the identified commercial grade. It does not replace a batch COA, sales specification, finished-product safety assessment or market-specific regulatory review.