

Pepaid™ HA Series — Animal-Derived Free Amino Acids

Animal-derived free amino acids in two powder and two liquid grades. Choose by amino acid content, chloride tolerance and application method.

Source Animal-derived	Formats Powder / liquid	Models HA80 / HA40 / HA20-LLC / HA20L
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Product Information

Animal-derived free amino acids in two powder and two liquid grades. Choose by amino acid content, chloride tolerance and application method.

Specifications

Parameter	Specification
HA80 — Source / form	Animal protein (meat proteins); Powder
HA80 — Appearance	Yellow or brownish yellow powder
HA80 — Solubility	Transparent in 5% aqueous solution
HA80 — pH	3.5–5.5
HA80 — Free amino acids	≥75%
HA80 — Total nitrogen	≥13.5%
HA80 — Moisture	≤5%
HA80 — Chloride	≤3%
HA40 — Source / form	Animal protein (hair and feathers); Powder
HA40 — Appearance	Yellow or brownish yellow powder
HA40 — Solubility	Transparent in 5% aqueous solution
HA40 — pH	4–7
HA40 — Free amino acids	≥40%
HA40 — Total nitrogen	≥17.5%
HA40 — Moisture	≤5%
HA40 — Chloride	≤30%
HA20-LLC — Source / form	Animal protein (hair and feathers); Liquid
HA20-LLC — Appearance	Red transparent liquid
HA20-LLC — Solubility	100% soluble in 5% aqueous solution
HA20-LLC — pH	4.5–5.5
HA20-LLC — Total amino acids	≥22%
HA20-LLC — Total nitrogen	≥3.5%
HA20-LLC — Amino acid nitrogen	≥3.0%
HA20-LLC — Chloride	≤1.5%
HA20-LLC — Specific gravity	≥1.11
HA20L — Source / form	Animal protein (hair and feathers); Liquid
HA20L — Appearance	Reddish brown liquid
HA20L — Solubility	100% soluble in 5% aqueous solution
HA20L — pH	4.0–6.0
HA20L — Total amino acids	≥18%
HA20L — Total nitrogen	≥8.5%
HA20L — Amino acid nitrogen	≥3.0%
HA20L — Chloride	≤15%
HA20L — Specific gravity	≥1.15

Specifications are model-specific. Free amino acids, total amino acids, protein and amino nitrogen are different measurements.

Applications

HA80: Foliar nutrition for high-value crops, nutrient deficiency correction and NPK blending.

HA40: Compound fertilizer blending and maintenance programs for chloride-tolerant crops.

HA20-LLC: Drip irrigation and fertigation for chloride-sensitive crops.

HA20L: Root irrigation, fertigation and soluble liquid crop-nutrition formulations.

Packaging / Storage

Item	Information
HA80	20 kg bag; 550 / 600 kg jumbo bag; shelf life 2 years in sealed original packaging.
HA40	20 / 550 / 600 kg bag; shelf life 2 years in sealed original packaging.
HA20-LLC	1,200 kg IBC; 1,000 kg liquid bag; shelf life 2 years in sealed original packaging.
HA20L	1,200 kg IBC; 1,000 kg liquid bag; shelf life 2 years in sealed original packaging.
Storage	Cool, dry, well-ventilated area; protect from moisture, sunlight and contamination.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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