



HYDROXYPROLINE

DESCRIPTION

Hydroxyproline, obtained from fermentation by separating and concentrating it with an ultrafiltration membrane and centrifuge, is a common non-proteinogenic amino acid and has been shown to be involved in targeting hypoxia-inducible factor (HIF) alpha subunit (HIF-1 alpha) for degradation by proteolysis. Hydroxyproline is a major component of the protein collagen and plays key roles in collagen stability. It is also used as an indicator to detect the presence of collagen or gelatin.

COMPOSITION

Hydroxyproline $\geq 99\%$, other impurity proline $\leq 1\%$ by HPLC.

SPECIFICATIONS

Description	White crystals or crystalline powder (through crystallization, not grinding)
Identification	Conforms
Specific rotation	-74.0°~-77.0°
Assay	98.5%~102.0%
Transmittance	$\geq 95.0\%$
pH	5.0~6.5
Weight loss on drying	$\leq 0.20\%$
Residue on ignition	$\leq 0.10\%$
Chloride (Cl)	$\leq 0.02\%$
Sulfate	$\leq 0.02\%$
Ammonium salt	$\leq 0.02\%$
Iron (Fe)	≤ 10 ppm
Arsenic (As)	≤ 1 ppm
Heavy metals (Pb)	≤ 10 ppm
Other amino acids	Not detectable

DURATION OF GUARANTEE

24 Months from date of manufacture. Keep in original, unopened packaging and store in a cool, dry place away from light.

PHYSICAL AND CHEMICAL PROPERTIES*

Solubility in water	$>35\%$ at 20°C
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*These data which result from careful tests on representative samples, are provided for information purposes only and do not in any way constitute a guarantee.

PACKAGING

25 kilograms per drum.

STORAGE

Airtight container, protected from light, dried.

METHOD OF ANALYSIS

Analytical method used for routine control of product conformity: according to AJI92.

SAFETY

The product Material Safety Data Sheet (MSDS) is available at www.hq-biosciences.com. This product is compliant with FAMI-QS, ISO 9001, HACCP, FSSC 22000 and PAS 222 (Halal, Kosher, non-GMO).