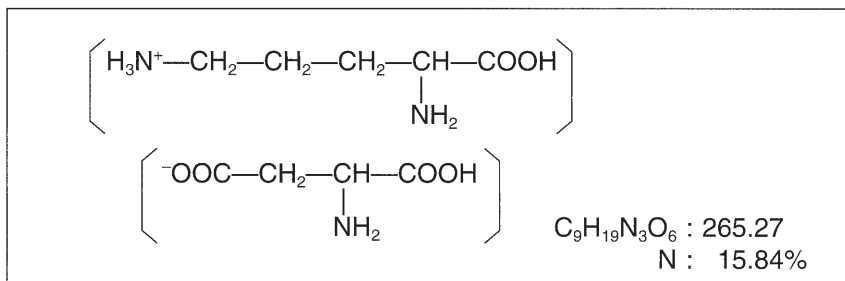


L-ORNITHINE L-ASPARTATE

CAS NO. 3230-94-2

MOLECULAR STRUCTURE AND FORMULA



DESCRIPTION

White crystals or crystalline powder
 Odorless
 Tasteless

IDENTIFICATION

Compare the infrared absorption spectrum of sample with that of the standard by ATR method.

SPECIFICATION AND PROCEDURE

State of solution (Transmittance)	Not Less Than 98.0%	Sec.-1 10%, H ₂ O
Specific rotation $[\alpha]_D^{20}$	+26.9 ~ +28.9°	Sec.-2, 8%, 6 mol/l HCl
Ammonium (NH ₄)	Not More Than 0.020%	Sec.-43, 0.20 g 0.02 mol/l HCl
Chloride (Cl)	Not More Than 0.020%	Sec.-4-(1), 0.50 g 0.24 ml of 0.01 mol/l HCl
Sulfate (SO ₄)	Not More Than 0.020%	Sec.-5, 0.60 g 0.25 ml of 0.005 mol/l H ₂ SO ₄
Iron (Fe)	Not More Than 10 ppm	Sec.-33
Heavy metals (Pb)	Not More Than 10 ppm	Sec.-7-(1), 2.0 g 2.0 ml of Standard solution
Arsenic (As ₂ O ₃)	Not More Than 1 ppm	Sec.-8-(1), 2.0 g 2.0 ml of Standard solution
Loss on drying	Not More Than 3.0%	Sec.-9-(1) 105°C, 5hr
Residue on ignition	Not More Than 0.20%	Sec.-10, 2 g
Foreign amino acids	Not More Than 0.4% (TLC, 50 µg)	Sec.-13, Solvent H, Nin H
Endotoxin*	Less Than 6.0 EU/g	Sec.-34-(2), 1.0 g/100 ml
Assay (dry basis)	98.0 ~ 101.0%	Sec.-15-(1), dry → 0.2 g 0.1 mol/l HClO ₄ 1 ml = 8.842 mg C ₉ H ₁₉ N ₃ O ₆

* The endotoxin-certified grade will be supplied on request.

STORAGE

Controlled room temperature in tight container