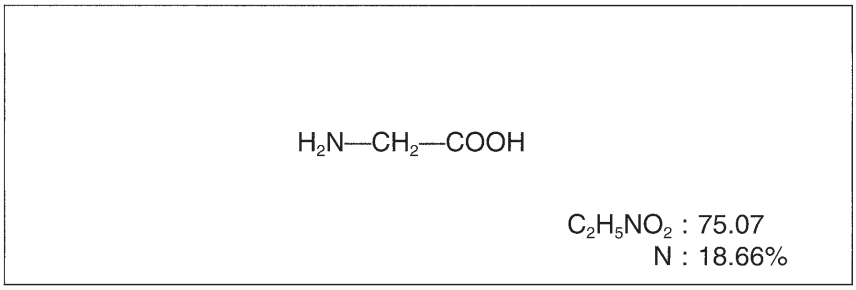
GLYCINE (AMINOACETIC ACID)

CAS NO. 56-40-6

Specification meets or exceeds the current JP USP EP and FCC.

MOLECULAR STRUCTURE AND FORMULA



DESCRIPTION

White crystals or crystalline powder
Odorless
Sweet taste

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 97.0%	Sec.-1 10%, H_2O
pH	5.9 ~ 6.4	Sec.-26, 5%
Ammonium (NH_4)	Not More Than 0.020%	Sec.-43, 0.20 g 0.1 mol/l HCl
Chloride (Cl)	Not More Than 0.007%	Sec.-4-(1), 1.21 g 0.24 ml of 0.01 mol/l HCl
Sulfate (SO_4)	Not More Than 0.006%	Sec.-5, 2.0 g 0.25 ml of 0.005 mol/l H_2SO_4
Iron (Fe)	Not More Than 10 ppm	Sec.-33
Heavy metals (Pb)	Not More Than 10 ppm	Sec.-7-(1), 1.0 g 1.0 ml of Standard solution
Lead (Pb)***	Not More Than 5 ppm	Sec.-7-(1), 1.0 g 0.5 ml of Standard solution
Arsenic (As_2O_3)	Not More Than 1 ppm	Sec.-8-(1), 1.0 g 1.0 ml of Standard solution
Hydrolyzable substances**	Pass test	Sec.-27
Loss on drying	Not More Than 0.20%	Sec.9-(1) 105°C, 3hr
Residue on ignition	Not More Than 0.10%	Sec.-10, 1 g
Related substances	Not More Than 0.5%	Sec.-43, 0.20 g 0.1 mol/l HCl
Endotoxin*	Less Than 6.0 EU/g	Sec.-34-(2), 1.0 g/100 ml
Assay (dry basis)	98.5 ~ 101.0%	Sec.-15-(1), dry → 0.08 g 0.1 mol/l $HClO_4$ 1 ml = 7.507 mg $C_2H_5NO_2$

** The endotoxin-certified grade will be supplied on request.*
*** This test item is done for USP grade.*
**** This test item is done for FCC grade.*

STORAGE

Controlled room temperature in tight container

This product meets requirements of residual solvents listed in the current JP, USP and EP.