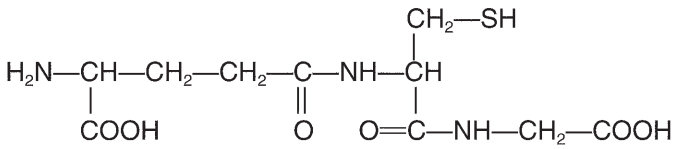
L-GLUTATHIONE REDUCED

CAS NO. 70-18-8

Specification meets or exceeds the current JP and EP.

MOLECULAR STRUCTURE AND FORMULA



$C_{10}H_{17}N_3O_6S$: 307.33
N : 13.67%

DESCRIPTION

White crystals or crystalline powder
Characteristic odor
Acid taste

IDENTIFICATION

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

SPECIFICATION AND PROCEDURE

State of solution (Transmittance)	Not Less Than 98.0%	Sec.-1 10%, H_2O
Specific rotation $[\alpha]_D^{20}$	-17.5 ~ -15.5°	Sec.-2, dry 4%, H_2O
Ammonium (NH_4)	Not More Than 0.020%	Sec.-3-(3), 0.10g
Sulfate (SO_4)	Not More Than 0.048%	Sec.-5, 0.6 g 0.25 ml of 0.005 mol/l H_2SO_4
Iron (Fe)	Not More Than 10 ppm	Sec.-6-(2), 1.0 g 1.0 ml of Standard solution
Heavy metals (Pb)	Not More Than 10 ppm	Sec.-7-(2), 2.0 g 2.0 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
Related substances	Not More Than 2.0%	Sec.-25-(1)
Loss on drying	Not More Than 0.50%	Sec.-9-(1) 105°C, 3hr
Residue on ignition	Not More Than 0.10%	Sec.-10, 1 g
Endotoxin*	Less Than 6.0 EU/g	Sec.-34-(2), 0.25 g/100 ml
Assay (dry basis)	98.0 ~ 101.0%	Sec.-20, dry → 0.5 g 0.05 mol/l Iodine 1 ml = 30.73 mg $C_{10}H_{17}N_3O_6S$

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

STORAGE

Controlled room temperature in tight container

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