

PRODUCT IDENTITY

PRODUCT NAME	Poly(ethylene glycol) (PEG)	PRODUCT NUMBER	P432425
Grades & Purity	UltraBio™, Ultra pure, 35000	VERSION	3
CAS NUMBER	25322-68-3	FORMULA	HO(CH ₂ CH ₂ O) _n H
FORMULA WEIGHT	g/mol		

ACCEPTANCE CRITERIA

PARAMETER	SPECIFICATION / LIMIT
Appearance(P432425)	Colorless or White Powder or Crystals or Flakes
Melting point	64-66 (°C)
Water by Karl Fischer	0-1 (%)
Sulfated Ash	0-0.2 (%)
Infrared spectrum	Conforms to Structure
Viscosity(50% in H ₂ O , 20°C)	11000-14000 (mPa·S)
Molecular mass(calculated from hydroxyl value)	25000-45000
Hydroxyl value	2.5-4.5 (mgKOH/g)
traces peroxide (as H ₂ O ₂)	0-50 (ppm)
Aluminium(Al)	0-5 (ppm)

PARAMETER	SPECIFICATION / LIMIT
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Cadmium(Cd)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Chromium(Cr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-200 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Sodium(Na)	0-200 (ppm)
Nickel(Ni)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)

PARAMETER	SPECIFICATION / LIMIT
Zinc(Zn)	0-5 (ppm)
Arsenic traces(MHS-AAS)	0-0.1 (ppm)
Total sulfur as SO ₄ (ICP)	0-50 (ppm)
Chloride (Cl ⁻)	0-50 (ppm)
pH(1.5g in 30ml H ₂ O)	5.5-7
Residue (filter test)	no residue
UV-ABS.at 260 nm	0-0.12
UV-ABS.at 280 nm	0-0.12