

Elemental Impurities

Polyethylene Glycol (PEG) 3350, Granular, USP Grade, From Kosher

Analytical results for USP <232> and ICH Q3D elemental impurities for representative samples are summarized as below.

Elemental Impurity	Symbol	Class	Likely to be present	Concentration (ppm)	Comments
Arsenic (inorganic)	As	1	No	ND (<0.1 ppm RL)	
Cadmium	Cd	1	No	ND (<0.1 ppm RL)	
Mercury (inorganic)	Hg	1	No	ND (<0.1 ppm RL)	
Lead	Pb	1	No	ND (<0.1 ppm RL)	
Cobalt	Co	2A	No	ND (<0.1 ppm RL)	
Nickel	Ni	2A	No	ND (<0.1 ppm RL)	
Vanadium	Va	2A	No	ND (<0.1 ppm RL)	
Silver	Ag	2B	No	-	Not tested
Gold	Au	2B	No	ND (<0.1 ppm RL)	
Iridium	Ir	2B	No	ND (<0.1 ppm RL)	
Osmium	Os	2B	No	ND (<0.1 ppm RL)	
Palladium	Pd	2B	No	ND (<0.1 ppm RL)	

Platinum	Pt	2B	No	ND (<0.1 ppm RL)	
Rhodium	Rh	2B	No	ND (<0.1 ppm RL)	
Ruthenium	Ru	2B	No	ND (<0.1 ppm RL)	
Selenium	Se	2B	No	ND (<0.1 ppm RL)	
Thallium	Tl	2B	No	ND (<0.1 ppm RL)	
Barium	Ba	3	No	ND (<0.1 ppm RL)	
Chromium	Cr	3	No	ND (<0.1 ppm RL)	
Copper	Cu	3	No	ND (<0.1 ppm RL)	
Lithium	Li	3	No	ND (<0.1 ppm RL)	
Molybdenum	Mo	3	No	ND (<0.1 ppm RL)	
Antimony	Sb	3	No	ND (<0.1 ppm RL)	
Tin	sn	3	No	ND (<0.1 ppm RL)	
Aluminum	Al	Other	No	ND (<0.1 ppm RL)	

(ND = Not Detected, RL = Report Limit)

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