Life Giving Store

TYPICAL ANALYSIS

Typical Certificate of Analysis

Product: Potassium Gluconate Powder – USP Grade
Chemical name: D-Gluconic acid, potassium salt
CAS number: 299-27-4 (anhydrous)
Molecular formula: C6H11KO7
Molecular weight: 234.24
Compliance: USP (producer's declaration)

Test	Specification	Typical Result
Assay	Potassium 16.2-17.2%	**16.5**
Assay	98.0-103.0% w/w	**99.1**
Identification	Complies	**Complies**
Appearance	Powder	**Complies**
Colour	White	**Complies**
Appearance of solution	Clarity (sol. 10%) < 4	**Complies***
Colour of solution	< 4	**Complies***
pH	7.0-8.3 (sol. 10%)	**7.5**
Particle size	> 850 micron: <= 5%	**Conforme***
Particle size	> 425 micron: <= 30%	**Conforme***
Particle size	> 180 micron: >= 50%	**Conforme***
Particle size	> 106 micron: >= 80%	**Conforme***
Loss on drying	<= 3%	**0.2**
Heavy metals	Pb <= 0.5 ppm	**Complies***
Heavy metals	As <= 3 ppm	**Complies***
Heavy metals	Total <= 20 ppm	**Complies***
Reducing substances	<= 0.5%	**Complies***
Total bacteria	<= 1000/g	**Complies***
Yeasts and moulds	<= 100/g	**Complies***
Pathogens	Salmonella: negative/50 g	**Complies***
Enterobacteriaceae	Negative/g	**Complies***

**Periodically carried out*
Provenance: a mineral source (oxide or hydroxide) reacting with gluconic acid. Type of product: complies with Pharmacopoeia; for professional use in food application. Allergens: food allergens-free (EU food allergen rules); gluten not expected. Nickel: no class 1, 2, o 3 metal catalysts or metal reagents are employed during the manufacturing process (EMEA/CHMP/SWP/4446/2000; Ph. Eur. 5.20 and 2.4.20; USP <232> and <233>; Draft Q3D guideline for Metal Impurities).