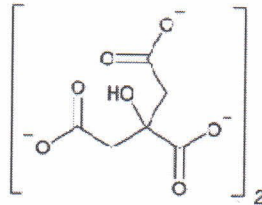




Batch no 202302003
Mf date Feb 03 2023
Retest Feb 02 2025

Molecular Structure



Molecular Formula $C_{12}H_{10}O_{14}Zn_3 \cdot 2H_2O$
Molecular Weight 610.36
CAS Registry Number 5990-32-9

May 15 2023

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White granular powder	Conforms
Solubility	Very slightly soluble in water, freely soluble in 2M nitric acid & 3M hydrochloric acid, practically insoluble in ethanol	Conforms
Identification	A, B	Positive
Fluoride	≤ 30 ppm	< 30 ppm
Sulfate	$\leq 0.05\%$	$< 0.05\%$
Chloride	$\leq 0.05\%$	$< 0.05\%$
Heavy metals	≤ 20 ppm	< 20 ppm
Lead	≤ 10 ppm	3 ppm
Loss on drying (180°C, 6h)	$\leq 6.5\%$	0.37%
Arsenic	≤ 3 ppm	< 3 ppm
Organic volatile impurities	Meets the requirements	Conforms
Cadmium	≤ 5 ppm	< 5 ppm
pH (5% solution)	6 ~ 7	6.7
Microbial limits	Total aerobic count ≤ 1000 cfu/g Total molds & yeasts ≤ 100 cfu/g E. coli & Salmonella Absent	60 cfu/g 10 cfu/g Absent
Bulk density	Loose 0.65 ~ 0.85 g/cc Tapped 1.00 ~ 1.10 g/cc	0.81 g/cc 1.02 g/cc
Particle size	Thru 20 mesh $> 99\%$ Thru 80 mesh $> 80\%$	99.2% 98.3%
Zinc content	$\geq 31.3\%$	31.5%
Assay (odb)	$\geq 98.5\%$	99.8%

Packaging & storage	Preserve in well-closed containers
Conclusion	Material complies with USP36

