Glycerin, U.S.P. Multi-Compendial 100% Vegetable Based (glycerol)



Material No.: 2143-01 Batch No.: 0000234930

Manufactured Date: 2019/04/29

Retest Date: 2024/04/27 Release Date: 2019/07/16 Revision No: 1

Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets J.P. Chemical Specifications, Meets U.S.P Requirements, GMP Manufactured Product

Test	Specification	Result
USP – Identification A	Passes Test	PT
USP – Identification B – Diethylene Glycol	<= 0.10 %	< 0.10
USP – Identification B – Ethylene Glycol	<= 0.10 %	< 0.10
USP – Identification C	Passes Test	PT
USP – Assay (as HOCH2CHOHCH2OH) (calculated on anhydrous basis)	99.0 - 101.0 %	99.6
JSP – Specific Gravity at 25°/25°C	>= 1.249	1.261
USP – Color	Passes Test	PT
JSP – Residue on Ignition	<= 0.01 %	< 0.01
JSP – Chloride (Cl)	<= 0.001 %	< 0.001
JSP – Sulfate (SO4)	<= 0.002 %	< 0.002
JSP - Chlorinated Compounds (as Cl)	<= 0.003 %	< 0.003
JSP - Fatty Acids and Esters(as butyric acid)	Passes Test	PT
JSP – Water (H₂O)	<= 5.0 %	0.1
JSP - Related Compounds: Individual Impurity	<= 0.1 %	0.1
JSP - Related Compo unds: Total Impurities	<= 1.0 %	< 1.0
EP/BP – Identification A	Passes Test	PT
P/BP – Identification B	Passes Test	PT
EP/BP - Appearance of Solution	Passes Test	PT
P/BP - Acidity or Alkalinity	Passes Test	PT
P/BP - Refractive Index, n ² °D	1.470 - 1.475	1.474
EP/BP – Aldehydes	<= 10 ppm	< 10
EP/BP – Ester	Passes Test	PT

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Test	Specification	Result
EP/BP – Halogenated Compounds	<= 35 ppm	< 35
EP/BP – Sugars	Passes Test	PT
EP/BP – Chloride (Cl)	<= 10 ppm	< 10
EP/BP - Water (H2O)	<= 2.0 %	0.1
EP/BP – Ash (sulfated)	<= 0.01 %	< 0.01
EP/BP – Impurity A and Related Substances – Impurity A	<= 0.1 %	< 0.1
EP/BP – Impurity A and Related Substances – Other mpurities with R^T <glycerol< td=""><td><= 0.1 %</td><td>< 0.1</td></glycerol<>	<= 0.1 %	< 0.1
EP/BP – Impurity A and Related Substances – Total mpurities R^T>Glycerol	<= 0.5 %	< 0.5
EP – Assay (anhydrous basis)	98.0 - 101.0 %	99.4
P – Assay (anhydrous basis)	98.0 - 101.0 %	99.6
P – Identification	Passes Test	PT
P – Specific Gravity at 20°/20°C	>= 1.258	1.262
P – Refractive Index, n²ºD	>= 1.470	1.474
P – Color	Passes Test	PT
P – Residue on Ignition	<= 0.01 %	< 0.01
P – Chloride (Cl)	<= 0.001 %	< 0.001
P – Sulfate (SO4)	<= 0.002 %	< 0.002
P – Heavy Metals (as Pb)	<= 5 ppm	< 5
P – Fatty Acids and Esters(as butyric acid)	Passes Test	PT
P – Readily Carbonizable Substances	Passes Test	PT
P – Acidity or Alkalinity	Passes Test	PT
P – Acrolein, Glucose, and Other Reducing Substances	Passes Test	PT
P – Ammonium (NH4)	Passes Test	PT
P – Calcium (Ca)	Passes Test	PT
P – Arsenic (As)	<= 2 ppm	< 2
P – Water (H ₂ O)	<= 2.0 %	< 2.0
P – Ethylene Glycol	<= 0.1 %	< 0.1
P – Diethylene Glycol	<= 0.1 %	< 0.1
P – Any Other Impurity	<= 0.1 %	< 0.1
P – Total Impurities	<= 1.0 %	< 0.1
Endotoxin Concentration (EU/g)	<= 5	< 1

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Elemental Impurities (USP 232, EP 5.20) - Information on elemental

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impurities for this product is available on the associated Product Regulatory Data Sheet and elemental impurity profile report.

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

Manufacturer: 00005030

Manufacturer source batch: CB049865192

