

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs 5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146 www.gojirafc.com • sales@gojirafc.com

Certificate of Analysis

Gentamicin Sulfate USP/EP

Catalog Number: Lot Number: CAS Number: Molecular Formula: Molecular Weight: Storage: Date of Manufacture:	$\begin{array}{l} GS1006 \\ 1012701 \\ 1405-41-0 \\ C_{21}H_{43}N_5O_7 \\ 477.60 \\ 2^{\circ}C - 8^{\circ}C \\ July \ 25, \ 2017 \end{array}$
	July 25, 2017 July 24, 2021

Test	Specification	Result
Appearance (EP)	White to off-white, hygroscopic powder.	Conforms
Potency (Dry Basis, USP)	≥ 590µg/mg	662µg/mg
Potency (Dry Basis, EP)	≥ 590IU/mg	674IU/mg
Identification A (FTIR, USP)	To match reference spectra	Conforms
Identification B (Sulfates, USP)	Reaction indicative of sulfates.	Conforms
First Identification (EP)		
B Chromatography	5 principal peaks on the chromatogram	Conforms
	match the reference solution.	Conforms
C Sulfates	Reaction indicative of sulfates.	
Second Identification (EP)		
A TLC	3 principal spots on the chromatogram	Conforms
	match the reference solution.	
C Sulfates	Reaction indicative of sulfates.	Conforms
Sulfate (EP)	32.0 – 35%	34.2%
Solubility (EP)	Freely soluble in water, practically	Conforms
	insoluble in ethanol	
Appearance of Solution (EP)	Clear, color intensity \leq 6 of the range of	Conforms
	reference solutions.	
Specific Rotation (c=1,USP/EP)	+107.0 to +121.0°	+118.0°
pH (40mg/mL, USP/EP)	3.5 – 5.5	4.5
Composition:		
C1a (USP)	10 – 35%	22%
C2+C2a (USP)	25 – 53%	45%
C2b+C1 (USP)	25 – 50%	33%
C1 (EP)	25 – 45%	30.6%
C1a (EP)	10 – 30%	21.6%
C2+C2a+C2b (EP)	35 – 55%	47.8%
Moisture (LOD, USP)	≤ 18%	6.4%
Moisture (LOD, EP)	≤ 15%	7.9%

For research purposes only. Not for drug or clinical use in humans or human food additive use.



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Residue on Ignition (USP)	≤ 1.0%	0.2%
Sulfated Ash (EP)	≤ 1.0%	0.2%
Limit of Methanol (USP/EP)	≤ 1.0%	Conforms*
Related Substances (EP)		
Impurity A (Sisomicin)	≤ 3.0%	Less than limit
Impurity B (Garamine)	≤ 3.0%	Less than limit
Any other Impurity	≤ 3.0%	0.9%
Total impurities	≤ 10.0%	3.4%
Endotoxin (USP/EP)	≤ 0.71IU/mg	< 0.06IU/mg
Total Microbial Count EP		
(Aerobic+Yeast+Mold)	≤ 100cfu/g	0 cfu/g
Particle Size	< 10 mm > 60%	76%
	< 20 mm > 75%	84%

*Methanol is not used in production.

Approved by:

ohn grubb

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Date: October 12, 2017