

## Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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## **Certificate of Analysis**

## Potassium Clavulanate EP: Silicon Dioxide (1:1)

Catalog Number:CL1005Lot Number:1029802CAS Number:61177-45-5Storage: $2^{\circ}\text{C} - 8^{\circ}\text{C}$ Date of Manufacture:July 18, 2018Retest Date:July 17, 2020

Test	Specification	Result
Appearance	White to almost white powder	Conforms
Assay (HPLC)		
Content of Potassium Clavulanate	91.2 - 107.1%	101.6%
Clavulanic Acid	38.3 – 45.0%	42.7%
Clavulanate Potassium	45.6 – 53.5%	50.8%
Identification		
HPLC	To match standard	Conforms
Reaction of Potassium	To meet requirements	Conforms
Reaction of Silicates	To meet requirements	Conforms
рН	4.8 – 8.0	5.7
Moisture	≤ 2.5%	0.55%
Light Absorption (A278nm)	≤ 0.4	0.032
Related Substances		
Impurity E	≤ 1.0%	0.032%
Impurity G	≤ 1.0%	0.00092%
Any Other Single Impurity	≤ 0.1%	< 0.05%
Total Impurities	≤ 2.0%	0.033%
Residual Solvents		
Acetic Acid	≤ 5,000ppm	363ppm
Acetone	≤ 5,000ppm	92ppm
Ethyl Acetate	≤ 5,000ppm	28ppm
2-Propanol	≤ 5,000ppm	655ppm

Approved by:

John Grubb, PhD

Gojira Fine Chemicals, LLC

**Quality Manager** 

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For research or further manufacturing. Not for drug, clinical or a food use in humans or animals.

Date: October 29, 2018