



## Certificate of Analysis

### TriPotassium Citrate Monohydrate USP/FCC

**Catalog Number:** TC1005  
**Lot Number:** 0829902  
**CAS Number:** 6100-05-6  
**Molecular Formula:**  $C_6H_5K_3O_7 \cdot H_2O$   
**Molecular Weight:** 324.42  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** February 12, 2019  
**Retest Date:** February 11, 2022

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay (USP/FCC)	99.0 – 100.5%	99.98%
Identification (USP/FCC)	To pass tests for Potassium & Citrate	Conforms
Solubility	Very soluble in water, practically insoluble in ethanol	Conforms
pH (5%)	7.5 – 9.0	8.54
Moisture (LOD, USP/FCC)	3.0 – 6.0%	5.5%
Alkalinity(USP/FCC)	To meet requirement	Conforms
Carbonizable Substances	To meet requirement	Conforms
Chloride	$\leq 50\text{ppm}$	$< 50\text{ppm}$
Oxalate	$\leq 0.01\%$	$< 0.01\%$
Sodium	$\leq 0.3\%$	0.08%
Sulfate	$\leq 150\text{ppm}$	$< 150\text{ppm}$
Tartrate (USP)	To meet requirements	Conforms
Heavy Metals (USP)	$\leq 5\text{ppm}$	$< 5\text{ppm}$
Arsenic	$\leq 0.5\text{ppm}$	$< 0.5\text{ppm}$
Cadmium	$\leq 0.5\text{ppm}$	$< 0.5\text{ppm}$
Iron	$\leq 5\text{ppm}$	$< 1\text{ppm}$
Lead (FCC)	$\leq 0.5\text{ppm}$	$< 0.5\text{ppm}$
Mercury	$\leq 0.1\text{ppm}$	$< 0.1\text{ppm}$
Residual Solvents: Water was the only solvent used during production of this lot.		

Approved by:

John Grubb, PhD  
Gojira Fine Chemicals, LLC  
Quality Manager  
Tel: 440-539-7033 Fax: 888-211-5523  
[john@gojirafc.com](mailto:john@gojirafc.com)

Date: September 3, 2019