

## Certificate of Analysis

Date of Testing: 2022-11-15 18:56:13  
 Date of Next Testing: 2026-11-14 18:56:13  
 Product Name: **TAPS**  
 CAS Number: 29915-38-6  
 Specifications & Purity: for cell culture, ≥99.5%(T)  
 Lot #: K2214039  
 SKU #: **T108963**  
**Analysis:** **156027**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
pKa	≥0	0.00
(Pb)Lead	0-0.001 (%)	0.00 %
useful PH range	7.7-9.1	8.50
Insoluble matter	0-0.1 (%)	0.04 %
Calcium(Ca)	0-0.001 (ppm)	0.00 ppm
Aluminum(Al)	0-0.0005 (ppm)	0.00 ppm
Chloride (Cl-)	0-0.05 (%)	0.03 %
Copper(Cu)	0-0.0005 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Potassium(K)	0-0.005 (%)	0.00 %
A280(1M,H2O)	0-0.05	0.02
Iron(Fe)	0-0.0005 (%)	0.00 %
Phosphorus (P)	0-0.005 (%)	0.00 %
Ignition Residue (as sulfate)	0-0.1 (%)	0.03 %
Ammonia (NH4)	0-0.05 (%)	0.02 %
A260(1M,H2O)	0-0.05	0.02
Purity(Titration by AgNO3)	99.5-100.5 (%)	99.93 %
Zinc(Zn)	0-0.0005 (%)	0.00 %
Water by Karl Fischer	0-0.5 (%)	0.04 %
Magnesium(Mg)	0-0.0005 (ppm)	0.00 ppm
Appearance (T108963)	White powder	White powder
Cell Culture Test	pass	Pass
DNase, RNase and Protease	None Detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager