

## Certificate of Analysis

Date of Testing: 2023-11-21 13:35:07  
 Date of Next Testing: 2027-11-20 13:35:07  
 Product Name: **TAPS**  
 CAS Number: 29915-38-6  
 Specifications & Purity: for cell culture, ≥99.5%(T)  
 Lot #: K2317165  
 SKU #: **T108963**  
**Analysis:** **286001**  
 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	8.11
Insoluble matter	0-0.1 (%)	0.02 %
Calcium(Ca)	0-0.001 (ppm)	0.00 ppm
Aluminum(Al)	0-0.0005 (ppm)	0.00 ppm
Chloride (Cl-)	0-0.05 (%)	0.02 %
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	0.04
Iron(Fe)	0-0.0005 (%)	0.00 %
Phosphorus (P)	0-0.005 (%)	0.00 %
Ignition Residue (as sulfate)	0-0.1 (%)	0.06 %
Ammonia (NH4)	0-0.05 (%)	0.03 %
A260(1M,H2O)	0-0.05	0.02
Zinc(Zn)	0-0.0005 (%)	0.00 %
Water by Karl Fischer	0-0.5 (%)	0.29 %
Magnesium(Mg)	0-0.0005 (ppm)	0.00 ppm
Purity(Titration by AgNO3)	99.5-100.5 (%)	100.30 %
Appearance (T108963)	White powder	White powder
DNase, RNase and Protease	None Detected	none detected
Solubility in H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager