



Certificate of Analysis

Uridine Triphosphate Sodium Salt EP

Catalog Number: UT1001
Lot Number: 0319901
CAS Number: 19817-92-6
Molecular Formula: $C_9H_{12}N_2Na_3O_{15}P_3 \cdot xH_2O$
Molecular Weight: 550.09 (Anhydrous)
Storage: $\leq -20^\circ C$
Date of Manufacture: November 23, 2018
Retest Date: November 22, 2021

Test	Specification	Result
Appearance	White lyophilized powder	Conforms
Purity (HPLC)	$\geq 95\%$	98.2%
Dry Substance	$\geq 90\%$	94.4%
Identification (HPLC)	Column retention time matches the standard	Conforms
Transmittance (430nm)	$\geq 97\%$	99.2%
Moisture	$\leq 10.0\%$	7.02%
pH	4.0 – 6.0	4.61
Related Substances (HPLC)		
UDP	$\leq 5.0\%$	2.0%
UMP	$\leq 0.5\%$	0.2%
ATP	$\leq 0.5\%$	0.1%
Impurities		
Individual	$\leq 0.2\%$	0.0%
Total	$\leq 5.0\%$	2.1%
Chloride	$\leq 1,000\text{ppm}$	$< 1,000\text{ppm}$
Heavy Metals	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Iron	$\leq 100\text{ppm}$	10ppm
Total Aerobic Count	$\leq 100\text{CFU/g}$	0CFU/g
Total Yeast & Mold	$\leq 10\text{CFU/g}$	0CFU/g
Bacterial Endotoxin	$\leq 0.125\text{EU/mg}$	$< 0.048\text{EU/mg}$
Residual Solvents		
EtOH	$\leq 500\text{ppm}$	1ppm
MeOH	$\leq 500\text{ppm}$	1ppm
Acetone	$\leq 500\text{ppm}$	4ppm

Approved by:

John Grubb, PhD

Date: March 21, 2019



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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