

## URIDINE BIOTECH

LBLE, GMP

URID-4250

$C_9H_{12}N_2O_6$  \* F.W. 244.20 g/mol. \* CAS# 58-96-8

### Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

Uridine Biotech is as a high purity, GMP Reagent Grade. Uridine is a glycosylated pyrimidine-analog containing uracil attached to a ribose ring via a  $\beta$ -N1-glycosidic bond. It is one of the five standard nucleosides which make up nucleic acid. Uridine is used a nutrient, an intermediate in biopharmaceutical preparations with other biotechnology applications.

### SPECIFICATIONS

ANALYSIS		SPECIFICATIONS
Trace Metals	Aluminum (Al)	$\leq 5$ ppm
	Calcium (Ca)	$\leq 100$ ppm
	Copper (Cu)	$\leq 5$ ppm
	Iron (Fe)	$\leq 30$ ppm
	Potassium (K)	$\leq 50$ ppm
	Magnesium (Mg)	$\leq 30$ ppm
	Sodium (Na)	$\leq 200$ ppm
	Lead (Pb)	$\leq 50$ ppm
	Zinc (Zn)	$\leq 5$ ppm
Chloride		$\leq 500$ ppm
Appearance and Color		White to almost white powder
Bioburden	TAMC	$\leq 100$ CFU/g
	TYMC	$\leq 100$ CFU/g
Endotoxin		$\leq 0.5$ EU/ mg
Heavy Metals		$< 10$ ppm
HPLC Assay		98.0 - 102.0%
HPLC Purity		$\geq 99.0\%$
Identification (IR)		Conforms to Spectrum of Reference Standard
Loss on Drying		$\leq 0.5\%$
Residue on Ignition		$\leq 0.1\%$
Transparency		$\geq 98.0\%$
UV Assay		$\geq 98.0\%$

Insoluble Matter	Pass
Total Phosphorus as PO4	≤ 160 ppm
Ammonium	≤ 1500 ppm
Purity (HPLC)	≥99.0%
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear

### General Product Description:

Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight: 244.20 g/mol

CAS Number: 58-96-8

### Uridine Biotech:

- Uridine Biotech is a white to almost white powder
- Is manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- Has no known major food allergens (as defined by FDA and WHO)
- The final product nor its raw materials are not derived from nor come into contact with animals, animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: 1-β-D-Ribofuranosyluracil, Uracil-1-β-D-ribofuranoside

### Shelf Life Policy:

Three-year expiry from the date of manufacture.

### Storage and Shipping Conditions:

Please refer to the SDS for storage and shipping conditions.

### Package Size:

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg