

UREA

BIOTECH, USP, GMP

CAS #: 57-13-6

Formula: CH₄N₂O

F.W.: 60.06 g/mol

UREA-4221

BIO PHARMA GRADE

ANALYSIS		SPECIFICATIONS
Alcohol Insoluble Matter		≤ 0.04%
Ammonium (NH ₄)		≤ 500 ppm
Appearance and Color		White / Crystals
Assay		98.0 – 102.0%
Chloride		≤ 500 ppm
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Heavy Metals		≤ 10 ppm
Identification A, IR		Conforms to Reference Standard
Identification B		Passes Test
Melting Range		132-135°C
pH (5M) @ 20°C		7.5 – 9.5
Impurities	Urea Related Compound A	≤ 0.1%
	Any Individual Unspecified Impurity	≤ 0.1%
	Total Impurities	≤ 2.0%
	Residue on Ignition	≤ 0.010%
Sulfate		≤ 500 ppm
Trace Metals	Aluminum (Al)	≤ 5 ppm
	Arsenic (As)	≤ 5 ppm
	Calcium (Ca)	≤ 10 ppm
	Copper (Cu)	≤ 5 ppm
	Iron (Fe)	≤ 5 ppm
	Lead (Pb)	≤ 5 ppm
	Magnesium (Mg)	≤ 5 ppm
	Potassium (K)	≤ 50 ppm
	Phosphorous (P)	≤ 50 ppm
	Sodium (Na)	≤ 50 ppm
	Zinc (Zn)	≤ 5 ppm

Country of Origin: USA

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, GMP, Reagent grade product, purified under full cGMP conditions. Urea is used in biochemistry and molecular biology as a protein denaturant with low UV absorptivity. In addition to increasing solubility of hydrophobic molecules, unfolding proteins and altering their three-dimensional structures, Urea also renatures protein structures.

General Product Description

- Appears as a white crystalline product
- Manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- No known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts/derivatives.
- Is not subject to genetic modification
- Synonyms: Carbamide, Carbonyl diamide.
- Visit the product page on our website (www.biospectra.us) for additional information, supporting regulatory documents, and CofAs.

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

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

Standard Lead Time

1-2 weeks