

Excipient

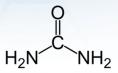
ICH-Q7 GMP Manufactured Product

UREA, LBLE, USP, EP, GMP Excipient Grade

Low Bioburden, Low Endotoxin, Multicompendial, GMP Manufactured

INTENDED FOR USE AS AN EXCIPIENT

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. BioSpectra manufactures re-purified, GMP Urea in its FDA registered US facility.



CAS #: 57-13-6

Molecular Formula: CH_4N_2O

Solubility in Water (g/L):

480@20°C

F.W.: 60.06 g/mol

pH @ 20°C: 7.2 (10% soln.)

BIO EXCIPIENT GRADE | Product Code: UREA-3250 | Previously: UR3250

CH₄N₂O • F.W. 60.06 g/mol. • CAS# 57-13-6



USP Compendia These are general specifications. BioSpectra will customize our products to meet your quality based requirements.

ANALYSIS		SPECIFICATIONS
Alcohol Insoluble Matter		0.04% max.
Appearance and Color		White / Crystals
Assay		98.0 - 102.0%
Endotoxin		2.5 EU/g max.
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Heavy Metals		10 ppm max.
Identification A (IR)		Passes Test
Identification B		Passes Test
Impurities	Organic	≤ 0.1%
	Total	≤ 2.0%
	Unspecified	≤ 0.1%
Insoluble Matter		0.010% max.
Loss on Drying		1.0% max.
Melting Range		132 - 135 °C
Residue on Ignition		0.010% max.
Trace Metals	Arsenic (As)	5 ppm max.
	Copper (Cu)	5 ppm max.
	Iron (Fe)	5 ppm max.
	Lead (Pb)	5 ppm max.





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TECHNICAL PRODUCT SHEET

Urea USP / EP

EP Compendia

ANALYSIS	SPECIFICATIONS
Assay	98.5 – 101.5%
Appearance of Solution	Clear and Colorless
Alkalinity	Passes Test
Ammonium	500 ppm max.
Biuret	0.1% max.
Heavy Metals	10 ppm max.
Identification A	132 - 135°C
Identification B (IR)	Passes Test
Identification C	Passes Test
Identification D	Passes Test
Loss on Drying	1.0% max.
Residue on Ignition	0.1% max.

GMP Compliance:

Bio Excipient Grade Urea, UREA-3250 is suitable for use as an excipient. It is manufactured in accordance with the ICH-Q7 Good Manufacturing Practice Guide. This grade of Urea is not suitable to be used as an Active Pharmaceutical Ingredient, Drug Product or Household Item.

Retest Date:

The recommended retest period for Urea is two years from the date of manufacture.

Storage and Shipping Conditions:

- Ship and Store between 15° and 30°C.
- Store in clean and dry area.
- · Store in the original container.

Package Sizes:

10kg and 25kg pails and 50kg drums.

Product Statements:

RESIDUAL SOLVENTS: Based on the manufacturing process and the controlled handling, storage and analysis of this product, this product complies with the requirement and specifications listed in the current USP method <467> Tables 1, 2, 3, or 4.

General Product Description:

- The manufacturing of Bio Excipient Grade UREA-3250 is performed at BioSpectra's Stroudsburg, PA facility and is conducted in a dedicated processing area using only dedicated equipment.
- Urea is a White Crystalline powder.
- Molecular Formula: CH₄N₂O
- Molecular Weight: 60.06 g/mol.
- CAS #: 57-13-6
- There are no known major food allergens (as defined by FDA and WHO) in the manufacture of this product.
- BioSpectra certifies that all Urea UREA-3250
 manufactured at BioSpectra and its raw materials
 are not derived from or come in contact with animal
 parts, products and/or byproducts.
- Urea manufactured at BioSpectra and any raw materials used in the manufacture of Urea at BioSpectra are not subject to genetic modification.
- Synonyms: Urea, Carbamide, Carbonyldiamide