

# BIO SPECTRA

100 Majestic Way, Bangor, PA 18013 / [www.biospectra.us](http://www.biospectra.us)

|                      |                                |                 |                       |
|----------------------|--------------------------------|-----------------|-----------------------|
| Effective Date:      | 04-Jun-2021                    | 04-Jun-2024     | : Date of Next Review |
| Prepared By:         | Jared L Lobb                   | 20-003671 v.2.0 | : Supersedes          |
| QA/QC Approval:      | Carissa McCollian              | Wendy Santay    | : Management Approval |
| Reason for Revision: | See Revision History in ensur. |                 |                       |

## CERTIFICATE OF ANALYSIS

### URACIL

BIO PHARMA GRADE / NEW CODE URAC-4250-95

(HISTORICAL CODE UC4250-G010)

LOT: URAC-0123-00002

$C_4H_4N_2O_2$  \* F.W. 112.09 g/mol. \* CAS# 66-22-8

Manufacturing Date: 11/29/22      Expiration Date: 11/30/25

Manufacturing Site: 100 Majestic Way, Bangor PA, 18013

Packaging Date: 2/14/23 Packaging Site: 100 Majestic Way, Bangor PA, 18013

| ANALYSIS             | SPECIFICATION                   | TEST RESULT                     |
|----------------------|---------------------------------|---------------------------------|
| Appearance and Color | White to Slightly Yellow Powder | White to Slightly Yellow Powder |
| Assay (dried basis)  | ≥ 98%                           | 100%                            |
| Chlorides            | ≤ 100 ppm                       | ≤ 100 ppm                       |
| Endotoxin content    | ≤ 3EU/g                         | 3EU/g                           |
| Heavy Metals         | ≤ 20 ppm                        | ≤ 20 ppm                        |
| Identification (IR)  | Passes Test                     | Passes Test                     |
| Loss on Drying       | ≤ 0.50%                         | 0.04%                           |
| Melting Point        | ≥ 300°C (Target 335°C)          | ≥ 300 °C                        |
| Reaction             | Passes Test                     | Passes Test                     |
| Residue on Ignition  | ≤ 0.10%                         | <0.02%                          |
| Solubility           | Passes Test                     | Passes Test                     |
| Sulfates             | ≤ 400 ppm                       | ≤ 400 ppm                       |
| TAMC                 | ≤ 100 CFU/g                     | <100 CFU/g                      |

COUNTRY OF ORIGIN: U.S.A.

TEST METHOD REFERENCE: DCN: 16-001314

**INTENDED USE:** Material represented by this Certificate of Analysis is suitable for use as a process chemical. It is manufactured in accordance with the IPEC-PQG Joint Good Manufacturing Practice Guide. The material represented by this Certificate of Analysis is not suitable to be used as an Active Pharmaceutical Ingredient, Drug, Drug Product or Household Item.

Prepared by: Jared Lobb Date: 2/17/23 Job Title: QA Specialist  
 Reviewed by: Carissa McCollian Date: 2/17/23 Job Title: Assoc. Director of Quality