

# CERTIFICATE OF ANALYSIS

COA-20211017-ING-020-046

NutriStart LLC | Stanton, Michigan | FDA Reg. No. 23041234567

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|                  |                  |
|------------------|------------------|
| Ingredient Code: | ING-020          |
| Ingredient Name: | Choline Chloride |
| Lot Number:      | CHO-2021-014-046 |
| Supplier ID:     | SUP-014          |
| Manufacturer:    | AminoBase GmbH   |

|                     |            |
|---------------------|------------|
| Manufacturing Date: | 2021-09-20 |
| Analysis Date:      | 2021-10-14 |
| Delivery Date:      | 2021-10-17 |
| Expiry Date:        | 2023-04-24 |
| Quantity Delivered: | 405.2 mg   |

Supplier: AminoBase GmbH | Lützowufer 6-9, 10785 Berlin, Germany | +49 30 555 8801 | qa@aminobase.de

| Parameter         | Specification | Unit   | Result   | Status |
|-------------------|---------------|--------|----------|--------|
| Purity            | ≥70.0%        | g/100g | Conforms | PASS   |
| Moisture          | ≤3.0%         | g/100g | Conforms | PASS   |
| Heavy metals      | ≤10 ppm       | ppm    | 5.836    | PASS   |
| pH (10% solution) | 5.5–7.5       | –      | 5.77     | PASS   |

## OVERALL DISPOSITION: RELEASED FOR PRODUCTION USE

Analysed by:  
M. Thornton — QC Analyst

Reviewed by:  
Dr. J. Osei — QA Manager

Approved by:  
S. Mehta — VP Regulatory Affairs

Release Date:  
2021-10-17