3050 Spruce Street, Saint Louis, MO 63103 USA Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

METAPHARMACEUTICAL IND SL

PRODUCTO PARA USO:

TECNICO

Product Name:

N,N-BIS(PHOSPHONOMETHYL)GLYCINE

>= 98.0 % T

Product Number:

15149

Batch Number:

BCBM6727V

Brand:

Aldrich

CAS Number:

2439-99-8

Formula:

C4H11NO8P2

Formula Weight:

263.08

Quality Release Date:

19 FEB 2014

TEST

SPECIFICATION

RESULT

APPEARANCE (COLOR)
APPEARANCE (FORM)

WHITE TO OFF WHITE

WHITE

TITRATION (T) NAOH 0.1M

POWDER 98.0 - 102.0 % POWDER

CARBON CONTENT

18.26 % (THEORY)

99.6 % 18.31 %

HYDROGEN CONTENT NITROGEN CONTENT 4.21 % (THEORY)

4.29 % 5.38 %

PROTON NMR SPECTRUM

5.32 % (THEORY)
CONFORMS TO STRUCTURE

CONFORMS

Dr. Claudia Geitner

Manager Quality Control

Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

SIGMA-ALDRICH®

3050 Spruce Street, Saint Louis, MO 63103 USA

Website: www.sigmaaldrich.com
Email USA techserv@sial.com
Outside USA eurtechserv@sial.com

Certificate of Origin

Product Number:

15149

Product Name:

N,N-Bis(phosphonomethyl)glycine

>= 98.0 % T

Lot Number:

BCBM6727V

Brand:

Aldrich

Country of Manufacture:	RUSSIAN
Type of Manufacture	
Chemical synthesis / chemical transformation	Yes
Fermentation / from cell culture	No
Purification/extraction from biological material	No
Blending of various components (incl. Preparation of solutions)	No
Purification/extraction from non-biological natural inorganic/organic source	No
Is the product / material partly or fully of human or animal origin (i.e., tallow derived materials, tissue, tissue extract or fluid such as milk, blood, etc.)?	No
Does the manufacturing process involve any raw materials, sourcing materials, or reagents that are of human or animal origin (i.e., lubricants, cleaning agents, filtering agents, processing aids, enzymes or cultural media, fermentation)?	No
Is any of the equipment used for processing and / or storage of the product in contact at any time with other materials of human or animal origin (i.e., cleaning solutions, solutions for equipment, test media used in equipment validation, other human or animal-derived products / materials)?	No
Is the product / material, for any other reason, at any time during its manufacturing process, in contact with materials of human or animal origin including fermentation?	No
Does the closure container (e.g. bottles, caps, drum, etc.) involve any raw materials that are of human or animal origin?	No
Are there procedures in place to avoid cross contamination with other materials or residue of animal, human, GMO origin or Allergen materials?	No
Genetically modified organisms used	No
Have any gluten materials been applied during manufacturing?	No
During the manufacturing process is a catalyst(s) used?	No
Is the product/material directly produced or handled using ionizing radiation?	No
During the manufacturing process is a solvent(s) used?	Yes
Are processes in-place for monitoring the production process, traceability and batch consistency?	Yes
Is this product/material collected and/or processed in dedicated equipment?	Yes
Was this product/material collected and packaged in new or sterilized containers?	Yes
Distilled Water	Yes

SIGMA-ALDRICH®

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Website: Email USA www.sigmaaldrich.com

Outside USA

techserv@sial.com eurtechserv@sial.com

Steam

Yes

Circulate

Yes

Have any allergen materials been applied during manufacturing?

No

Director Quality Assurance-EMEA

This information is to be used for the purpose of determining animal or other biological origin only and not to be confused with "country of origin" for import/export purposes. Data provided in this document are property of Sigma-Aldrich.

The above information is believed to be correct to the best of our knowledge

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