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## Certificate of Analysis

**Product Name** Choline chloride, USP grade

Glentham Code GV9961 **CAS Number** 67-48-1 **EINECS** 200-655-4 MDL Number MFCD00011721 62-49-7 Additional CAS **Batch Number** 310GIV

Molecular Weight 139.63 Molecular Formula C<sub>5</sub>H<sub>14</sub>CINO Storage Temp. +20°C

pH (10% in water)

5.6

Conforms Conforms

Conforms

Conforms

Conforms

Conforms

Conforms

0.3%

99.2%

Conforms

CI-

Property Specification Batch 310GIV Physical Description Colourless crystals or white crystalline powder Conforms Identification A, B according to USP Conforms

≤ 0.05% 0.03% Residue on Ignition **Heavy Metals** Conforms ≤ 10ppm Lead (Pb) To pass test Conforms

≤ 0.3%

4.0 - 7.0

Arsenic (As) ≤ 1ppm Mercury (Hg) ≤ 0.1ppm Cadmium (Cd) ≤ 1ppm

Any Individual Impurity ≤ 2.0% **Total Impurities** 1,4-Dioxane ≤ 10µg/g

**Total Amines** ≤ 10µg/g Water ≤ 0.5% Assay 99.0 - 100.5 % (anhydrous basis)

Specification Version v1.0

Pharmacopoeia Specification(s)

Manufacture Date 2023-02-20 Re-Test Date 2029-05-18

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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