**Supplied by LiquidShop**
Item No.: ALPHA_GPC
Revision: 00 Date: 2026-10-08

# Product Specification Sheet

## 1. Product Description

| | |
|---|---|
| **Product Name:** | Alpha GPC (Choline Alfoscerate) — Bulk Food Grade |
| **Chemical / Common Name:** | L-α-Glycerylphosphorylcholine (choline alfoscerate) |
| **Synonyms:** | Alpha-GPC, GPC, choline alfoscerate, L-alpha-glycerophosphocholine |
| **Ingredient Statement:** | Alpha-glycerylphosphorylcholine |
| **Molecular Formula / Weight:** | C8H20NO6P / 257.22 g/mol |
| **CAS No. / HS Code:** | 28319-77-9 / — |
| **Grade:** | ☐ Conventional ☐ Organic ☒ Food Grade ☐ USP / FCC |
| **Country of Origin:** | — |
| **Description:** | Alpha GPC 99 %: white powder, neutral odour, highly hygroscopic. |

## 2. Physical & Chemical Characteristics

| Parameter | Specification | Method |
|---|---|---|
| Appearance | White powder, neutral odour, highly hygroscopic | Visual |
| Identification | TLC: standard and test solution same spot, Rf | TLC |
| Specific Optical Rotation | -2.4° to -2.85° | — |
| Sulfate (SO4) (%) | ≤ 0.02 | Colorimetry |
| Chloride (Cl) (%) | ≤ 0.02 | Colorimetry |
| pH | 4.5 – 7.0 | — |
| Related Substances | Spot not bigger than standard solution spot | TLC |
| Residual Solvent (%) | ≤ 0.5 | HS-GC |
| Water Content (%) | ≤ 2 | KF |
| Assay, dried basis (%) | 98.0 – 102.0 | Potentiometric titration |

## 3. Contaminants

| Parameter | Specification | Method |
|---|---|---|
| Heavy Metals (as Pb) (ppm) | ≤ 10 | Colorimetry |

## 4. Microbiological Characteristics

| Parameter | Specification | Method |
|---|---|---|
| Not specified | — | — |

## 5. Allergen Declaration

| Priority Allergen (Health Canada) | Present in Product | Same Line / Facility |
|---|---|---|
| Peanuts | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Tree nuts | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Sesame seeds | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Milk | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Eggs | ☐ Yes ☐ No | ☐ Yes ☐ No |

| Priority Allergen (Health Canada) | Present in Product | Same Line / Facility |
|---|---|---|
| Fish | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Crustaceans & molluscs | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Soy | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Wheat & triticale | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Gluten (barley, oats, rye) | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Mustard | ☐ Yes ☐ No | ☐ Yes ☐ No |
| Sulphites (≥ 10 ppm) | ☐ Yes ☐ No | ☐ Yes ☐ No |

## 6. Regulatory Status

| | |
|---|---|
| **GMO Status:** | ☐ Non-GMO ☐ Contains GMO ☐ Not applicable |
| **Irradiation:** | ☐ Not irradiated ☐ Irradiated |
| **Certifications:** | ☐ Kosher ☐ Halal ☐ Organic ☐ Vegan ☐ Other: _____ |
| **BSE / TSE Statement:** | — |
| **Standard of Quality:** | Manufacturer specification (Alpha GPC 99 %). |

## 7. Packaging, Storage & Shelf Life

| | |
|---|---|
| **Uses:** | Choline source for supplements, sports nutrition and functional beverages. |
| **Packaging:** | Food-grade sealed pouches, repacked from the manufacturer's original packaging. |
| **Storage Conditions:** | Highly hygroscopic: keep tightly closed in a cool, dry place, protected from moisture. |
| **Shelf Life:** | 2 years from date of manufacture in original packaging. |
| **Lot Code Format:** | YYYYMMDDNN (repack date + sequence), traceable to the manufacturer lot. |

## 8. Quality Assurance Review

**Reviewed By (QA):** LiquidShop Quality Assurance **Review Date:** 2026-10-08

**This document was prepared electronically and reviewed by LiquidShop Quality Assurance. It is valid without a signature.**

*The information contained in this document is accurate to the best of our knowledge. It is the responsibility of the user to ensure the product is suitable for its intended application and complies with applicable regulations.*