

**PRODUCT SPECIFICATION SHEET**
**GMP GRADE  
ACETONITRILE**
**High Purity**

Meets ACS GRADE Monograph

Main Catalog Number: 300000GMP-Size Code\*

\*Refer to Master Price List – Individual package sizes have unique size codes

**Manufactured in compliance with GMP**

| TEST                               | SPECIFICATION  | TYPICAL RESULT |
|------------------------------------|----------------|----------------|
| Assay (by GC, corrected for water) | NLT 99.5%      | 99.9%          |
| Color (APHA)                       | 10 max.        | <10            |
| Residue after Evaporation          | 0.005% max.    | 0.001%         |
| Titration Acid                     | 8 µeq/g max.   | 1 µeq/g        |
| Titration Base                     | 0.6 µeq/g max. | 0.1 µeq/g      |
| Water (wt%)                        | 0.2%, max      | <0.05%         |

**Permitted Concentrations of Elemental Impurities Following Option 1 Guideline in drug products,  
drug substances and excipients<sup>1</sup>**

Reported in µg/g (ppm)

| Element        | Class | Oral Concentration<br>µg/g | Parenteral<br>Concentration<br>µg/g | Inhalation<br>Concentration µg/g | TYPICAL<br>RESULT<br>(in µg/g)<br>(ppm) |
|----------------|-------|----------------------------|-------------------------------------|----------------------------------|---|
| Cd (Cadmium)   | 1     | 0.5                        | 0.2                                 | 0.2                              | 0.00                                    |
| Pb (Lead)      | 1     | 0.5                        | 0.5                                 | 0.5                              | 0.00                                    |
| As (Arsenic)   | 1     | 1.5                        | 1.5                                 | 0.2                              | 0.00                                    |
| Hg (Mercury)   | 1     | 3                          | 0.3                                 | 0.1                              | 0.00                                    |
| Co (Cobalt)    | 2A    | 5                          | 0.5                                 | 0.3                              | 0.00                                    |
| V (Vanadium)   | 2A    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Ni (Nickel)    | 2A    | 20                         | 2                                   | 0.5                              | 0.00                                    |
| Tl (Thallium)  | 2B    | 0.8                        | 0.8                                 | 0.8                              | 0.00                                    |
| Au (Gold)      | 2B    | 10                         | 10                                  | 0.1                              | 0.00                                    |
| Pd (Palladium) | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Ir (Iridium)   | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Os (Osmium)    | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |

| Element         | Class | Oral Concentration<br>µg/g | Parenteral<br>Concentration<br>µg/g | Inhalation<br>Concentration µg/g | TYPICAL<br>RESULT<br>(in µg/g)<br>(ppm) |
|-----------------|-------|----------------------------|-------------------------------------|----------------------------------|---|
| Rh (Rhodium)    | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Ru (Ruthenium)  | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Se (Selenium)   | 2B    | 15                         | 8                                   | 13                               | 0.00                                    |
| Ag (Silver)     | 2B    | 15                         | 1                                   | 0.7                              | 0.00                                    |
| Pt (Platinum)   | 2B    | 10                         | 1                                   | 0.1                              | 0.00                                    |
| Li (Lithium)    | 3     | 55                         | 25                                  | 2.5                              | 0.00                                    |
| Sb (Antimony)   | 3     | 120                        | 9                                   | 2                                | 0.00                                    |
| Ba (Barium)     | 3     | 140                        | 70                                  | 30                               | 0.00                                    |
| Mo (Molybdenum) | 3     | 300                        | 150                                 | 1                                | 0.00                                    |
| Cu (Copper)     | 3     | 300                        | 30                                  | 3                                | 0.00                                    |
| Sn (Tin)        | 3     | 600                        | 60                                  | 6                                | 0.00                                    |
| Cr (Chromium)   | 3     | 1100                       | 110                                 | 0.3                              | 0.00                                    |

<sup>1</sup>Includes all requirements for ICH Q3D-Step 4 version, EMA (EP) 5.2 and USP <232> and <233> General Chapters.

Form: Acetonitrile, GMP, Rev. 1.8, 02/18, EF

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.