



**RE: Elemental Impurities - Benzyl Alcohol, Parenteral Grade, NF, bioCERTIFIED™
(Cat# B8210)**

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Cadmium		1	<1.0 ppm
Lead		1	<1.0 ppm
Arsenic		1	<1.0 ppm
Mercury		1	<1.0 ppm
Cobalt		2A	<1.0 ppm
Vanadium		2A	<1.0 ppm
Nickel		2A	<1.0 ppm
Silver		2B	<1.0 ppm
Antimony		3	<1.0 ppm
Molybdenum		3	<1.0 ppm
Copper		3	<1.0 ppm
Tin		3	<1.0 ppm
Chromium		3	<1.0 ppm

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

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If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at TechServices@spectrumchemical.com.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

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