



Elemental Impurities – Cupric Sulfate, Pentahydrate, Powder, USP (CAT# CU110)

To Whom It May Concern:

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 (Cd)	1	<0.05ppm
Lead (Pb)	1	0.07ppm
Arsenic (As)	1	<0.05ppm
Mercury (Hg)	1	<0.05ppm
Nickel (Ni)	2A	0.61ppm
Molybdenum (Mo)	3	<0.05ppm
Chromium (Cr)	3	0.37ppm

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 the 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.

If you have any further questions, please contact the Spectrum technical department via email at:
technicalservices@spectrumchemical.com

Sincerely,

Technical Service

Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue
New Brunswick, NJ 08901
PHONE 732.214.1300
FAX 732.246.7132

WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843