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## **Heavy Metals**

National Sugar Marketing affirms that all granulated sugar produced at partner refineries have concentrations of heavy metals well below those recognized as safe by the FDA. This includes the November 2006 modification regarding acceptable levels of lead in candy. The modification states that the maximum level of lead is no more than 0.1 ppm.

Typical values are at or near the detection levels cited by the methodology currently approved by the FDA. Current methodology for most of the metals employs Atomic Absorption Spectrophotometry. Arsenic (As) and Lead (Pb) are determined using the ICP Mass Spectrometry. Typical concentrations in sugar as shipped are as shown below:

Copper (Cu) < 1 ppm Mercury (Hg) < 0.1 ppm Iron (Fe) < 4 ppm Lead (Pb) < 0.1 ppm Cadmium (Cd) < 0.1 ppm Arsenic (As) < 0.01 ppm

Domestic sugar manufacturing facilities perform annual analyses utilizing third-party laboratories to continually verify these statements.

NSM Quality Assurance Team quality@natsugar.com Reviewed/Revised: May 1, 2024

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