
Laboratory Report

December 11, 2023

Element Job No: 276540
Purchase Order: PO137984
Project Name: Thyroid API
Samples Received: 3
Date Received: 11-28-2023

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Selected Metals with Microwave Digestion by SFS-0116, Rev 14
Inductively Coupled Plasma - Mass Spectrometry

Sample preparation: A sample portion (0.1 g) was digested with 4 mL of nitric acid in a closed-vessel, microwave-digestion system. The sample was cooled, 2 mL of hydrochloric acid and internal standards were added, and the sample was diluted to 100 g with high-purity water. The sample appears to have completely dissolved.

Parts Per Million ($\mu\text{g/g}$)

<u>Element</u>	<u>1683-0008</u>	<u>1683-0009</u>	<u>1683-0010</u>	<u>Detection Limit</u>
Arsenic	ND	ND	ND	0.09
Cadmium	ND	ND	ND	0.02
Cobalt	ND	ND	ND	0.01
Lead	ND	ND	ND	0.3
Mercury	ND	ND	ND	0.06
Nickel	ND	0.6	ND	0.2
Vanadium	ND	ND	ND	0.3

The work described above was conducted in compliance with the principles of current Good Manufacturing Practice. The results reported accurately reflect the raw data. The following compliance exception was noted: the results have been generated using method(s) that have not been validated at this facility.

Date Analyzed: Dec 04, 2023

Quality Control Summary

Parts Per Million (µg/g)

Sample: 1683-0010

<u>Analyte</u>	<u>Sample Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>
Arsenic	ND	4.50	3.96	88
Cadmium	ND	1.50	1.37	91
Cobalt	ND	15.0	13.8	92
Lead	ND	1.50	1.6	107
Mercury	ND	9.00	8.81	98
Nickel	ND	60.0	54.2	90
Vanadium	ND	30.0	26.7	89

Sample: Laboratory Fortified Blank (LFB)

<u>Analyte</u>	<u>Blank Result</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec</u>
Arsenic	ND	4.50	4.25	94
Cadmium	ND	1.50	1.38	92
Cobalt	ND	15.0	13.8	92
Lead	ND	1.50	1.6	107
Mercury	ND	9.00	8.72	97
Nickel	ND	60.0	54.5	91
Vanadium	ND	30.0	26.6	89

Date Analyzed: Dec 04, 2023