
Laboratory Report

December 11, 2023

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

| Analysis | Page |
|--|-------|
| Selected Metals with Microwave Digestion by SFS-0116, Rev 14 | 2 - 3 |



Eric Sauble
Senior Chemist/Assistant Metals Supervisor



Winnie Lin
Senior Chemist

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 ($\mu\text{g/g}$)

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