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## Gore PharmBIO Products

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May 2026

To Whom It May Concern:

**RE: Extractable Report for GORE® STA-PURE® Pump Tubing, Series PFL**

The attached report is an extractables study performed on GORE® STA-PURE® Pump Tubing, Series PFL ("the Product"). Test conditions were based on selected guidelines put forth by BioPhorum as stated in their Extractables Testing of Polymeric Single-Use Components Used in Biopharmaceutical Manufacturing (April 2020). This study also conforms to the guidelines of USP <665> Plastic Components and Systems Used to Manufacture Pharmaceutical Drug Products and Biopharmaceuticals Drug Substances and Products. The test results are a point in time, and do not represent a claim for each future production lot.

The product is manufactured and packaged in a clean environment in a manner that adheres to relevant current Good Manufacturing Practices (cGMP) as defined in the Gore PharmBIO Products' quality system, which is certified to ISO 13485 and ISO 15378.

Sincerely,



Keith Fritsky
Product Specialist


**Gore PharmBIO Products**

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PB7954-R6-TEC-US-NOV26

## EXECUTIVE SUMMARY

RE: Extractable Report for GORE® STA-PURE® Pump Tubing, Series PFL

W. L. Gore & Associates, Inc. (“Gore”) is providing the above-referenced report for the purpose of supplying high-quality and useful extractables data and information to end-users of GORE® STA-PURE® Pump Tubing, Series PFL.

The study involved testing of the Product manufactured at Gore’s Elk Mills 2 site, located at 402 Vieve’s Way, Elkton, Maryland, 21921 (USA). The study was conducted by Element Materials Technology Bend, LLC (“Element”) of Bend, Oregon, 97701 (USA), an independent contract laboratory. Element is recognized as a leader in supporting extractables testing based on BioPhorum guidance. The testing outlined in the report was performed on the Product immersed in extraction solvents. This study included extractions under the following conditions:

- Four (4) extraction solvents: 50% ethanol in water, 0.5 M sodium hydroxide (NaOH), 0.1 M phosphoric acid ($H_3PO_4$) and Deionized (DI) water.
- Two (2) exposure times: 24 hours and 21 days at 40° C.

The following organic screening and targeted elemental analytical methods, techniques, and reporting thresholds were included in the study:

- Headspace gas chromatography with mass spectrometry and flame ionization detection (Headspace GC/MS/FID) for volatiles performed on all solvent extracts.
  - Target Reporting Thresholds: 0.10 µg/mL (0.017 µg/cm$^2$).
- Gas chromatography with mass spectrometry and flame ionization detection (GC/MS/FID) for volatiles and semi-volatiles performed on all solvent extracts.
  - Target Reporting Thresholds: 0.10 µg/mL (0.017 µg/cm$^2$).
- Liquid chromatography with ultraviolet and mass spectrometry detection (LC/UV/MS) for semi-volatile and non-volatiles performed on all solvent extracts.
  - Target Reporting Thresholds: 0.10 µg/mL (0.017 µg/cm$^2$).
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) for elements in the 0.1 M phosphoric acid ($H_3PO_4$) extract.
  - Reporting thresholds: 0.0033 µg/cm$^2$ (except for Platinum and Mercury at 0.00033 µg/cm$^2$).

The organic extractable screening results are estimated, semi-quantitative values that used response factors generated from surrogate standards.

Based on BioPhorum guidance, organic extractables results are sorted to present a trend from high to low concentration, with identification classifications being consistent with guidance provided in USP <1663> Assessment of Extractables Associated with Pharmaceutical Packaging/Delivery Systems.

This study conforms to the guidelines of USP <665> Plastic Components and Systems Used to Manufacture Pharmaceutical Drug Products and Biopharmaceuticals Drug Substances and Products.

Although there are procedural differences between the BioPhorum and USP <665> extractables protocols, BioPhorum conditions followed in this study are considered more aggressive and include augmented parameters.

- Extraction Duration: USP <665> requires a single time point for 21 days at 40° C, whereas this study employed two time points for 1 and 21 days at 40° C. The BioPhorum one-day time point will capture additional potential volatile components that may be lost over the 21-day extraction.
- Extraction Solvents: Based on a high level risk evaluation, USP <665> requires three solvents including 50% Ethanol, pH 3 water and pH 10 water. This study employed four solvents based on a high risk level assessment, including 50% Ethanol, 0.1 M phosphoric acid in water, 0.5 M sodium hydroxide in water and water for injection (WFI). The BioPhorum 0.1 M phosphoric acid solution has a pH of approximately 1.6 and is therefore more acidic than the pH 3 water. The lower BioPhorum pH is more aggressive for solubilizing metals and will not negatively impact the materials of construction. The BioPhorum 0.5 M sodium hydroxide solution has a pH of approximately 13.5 and is therefore more caustic than a pH 10 water. Some process conditions experienced by GORE® STA-PURE® Pump Tubing, Series PFL may be above a pH of 10, and materials of construction will not degrade at pH 13.5. Both solvent substitutions are permissible per USP <665>.
- Extraction Parameters: This study was performed on the Product immersed in extraction solvents. Both BioPhorum and USP <665> permit immersion extractions.
- Risk Profile Driven Testing: According to USP <1665>, low risk testing of nonvolatile residue and UV absorbance is not applicable when performing high risk organic profiling and is superseded by the speciated organic profiling employed in this study using GC/MS and LC/MS techniques.

# Summary Extractables Statement

| Test Article | GORE® STA-PURE® Pump Tubing Series PFL | | |
|---|---|---|---|
| **Number of test articles** | 2 | | |
| **W.L. Gore Part number** | ZB14FE | | |
| **W.L. Gore Lot numbers** | B23801727921, B23801721006 | | |
| **Pretreatment** | **Variable(s)** | **Units** | **Value(s)** |
| **Gamma irradiation** | Dose | kGy | N/A |
| **Autoclave** | Time, Temperature, Number of Cycles | Minutes, °C, # | 30 min, 121° C, 1 Cycle |
| **Pre-flush** | Fluid identity, duration, temperature, volume | Name, minutes, °C, L | N/A |
| **Test Article Extraction Conditions** | **Variable** | **Units** | **Value(s)** |
| | Temperature | °C | 40 |
| | Duration | Minutes, hours, days | 1 and 21 Days |
| | Solvent contact surface area | $cm^2$ | 483.93 for Organics, 509.40 for Inorganics (nominal) |
| | Solvent volume | mL | 80 for Organics and 85 for Inorganics (nominal) |
| | Surface area to volume ratio | ratio | 6 (nominal) |
| **Supporting Information** | | | |
| **Bags** | Film Thickness | mm | N/A |
| | Volume (capacity) | L | N/A |
| **Tubing** | Wall Thickness | mm | 2.4 (nominal) |
| | Internal Diameter | mm | 3.2 (nominal) |
| | Length | mm | 70 (nominal) |
| **Tubing connectors and aseptic connectors** | Internal Diameter | mm | N/A |
| | Length | mm | N/A |
| **Filters and TFF cassettes** | EFA | $m^3$ | N/A |
| **Filling needles** | Internal Diameter | mm | N/A |
| **2D and 3D bags** | Time between film manufacturing and gamma irradiation | Days (Lot1) | N/A |
| | | Days (Lot2) | |
| | | Days (Lot3), if applicable | |
| **All gamma-irradiated components** | Time between gamma irradiation and extraction | days | N/A |
| | Typical dose range during normal manufacturing | kGy | N/A |
| **All autoclaved components** | Time between autoclave and extraction (<24 hours recommended) | Hours | <24 |

# Organic Extractables Table

## GORE® STA-PURE® Pump Tubing Series PFL

Gore Part number: ZB14FE
Lot Number: B23801727921, B23801721006
Analysis Date: January 2026

| Compound | CAS | Retention Time, min | 24 Hours Extract 1, µg/cm² | 24 Hours Extract 2, µg/cm² | 21 Days Extract 1, µg/cm² | 21 Days Extract 2, µg/cm² | Identification Classification | Extraction Solvent | Analytical Technique |
|---|---|---|---|---|---|---|---|---|---|
| Unknown | NA | 17.74 | 0.27 | 0.42 | 0.90 | 1.0 | Unknown | 50% EtOH | LC/MS/UV |
| Silanol, 1,1,1-trimethyl- | 1066-40-6 | 10.9 /12.15 | ND | ND | 0.77 | 0.58 | Confirmed | 50% EtOH | HS GC/MS/FID |
| Acetaldehyde | 75-07-0 | 3.31 | 0.040 | 0.025 | 0.75 | 0.68 | Confirmed | 50% EtOH | HS GC/MS/FID |
| Ethane, 1,1-diethoxy- | 105-57-7 | 26.11 | ND | ND | 0.57 | 0.48 | Confirmed | 50% EtOH | HS GC/MS/FID |
| Silanol, 1,1,1-trimethyl- | 1066-40-6 | 11.88 | 0.15 | 0.13 | 0.40 | 0.30 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| Unknown | NA | 18.92 | 0.055 | ND | 0.25 | 0.20 | Unknown | 50% EtOH | LC/MS/UV |
| 2-Propanol | 67-63-0 | 6.35 | 0.060 | ND | 0.22 | 0.20 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| Silanol, 1,1,1-trimethyl- | 1066-40-6 | 11.88 | 0.052 | 0.038 | 0.20 | 0.15 | Confirmed | DI Water | HS GC/MS/FID |
| 2-Propanol | 67-63-0 | 6.35 | 0.065 | ND | 0.18 | 0.14 | Confirmed | DI Water | HS GC/MS/FID |
| Silanol, 1,1,1-trimethyl- | 1066-40-6 | 11.87 | 0.062 | 0.043 | 0.18 | 0.13 | Confirmed | 0.1 M $H_3PO_4$ | HS GC/MS/FID |
| 2-Propanol | 67-63-0 | 6.36 | 0.055 | ND | 0.17 | 0.15 | Confirmed | 0.1 M $H_3PO_4$ | HS GC/MS/FID |
| Acetaldehyde | 75-07-0 | 3.31 | 0.082 | 0.075 | ND | 0.12 | Confirmed | DI Water | HS GC/MS/FID |
| Unknown | NA | 11.51 | 0.043 | 0.063 | 0.16 | 0.22 | Unknown | 50% EtOH | LC/MS/UV |
| Cyclohexanone | 108-94-1 | 36.18 | ND | ND | 0.16 | 0.20 | Confirmed | 50% EtOH | HS GC/MS/FID |
| Unknown | NA | 11.05 | ND | ND | 0.13 | 0.12 | Unknown | 50% EtOH | LC/MS/UV |
| Unknown | NA | 10.03 | ND | ND | 0.13 | 0.11 | Unknown | 50% EtOH | LC/MS/UV |
| Unknown | NA | 17.78 | 0.095 | 0.073 | 0.10 | 0.098 | Unknown | 0.5M NaOH | LC/MS/UV |
| Acetaldehyde | 75-07-0 | 3.30 | 0.023 | 0.020 | 0.098 | 0.080 | Confirmed | 0.1 M $H_3PO_4$ | HS GC/MS/FID |
| Silane, diethoxydimethyl- | 78-62-6 | 3.71 | 0.042 | 0.030 | 0.098 | 0.035 | Confident | 50% EtOH | GC/MS/FID |
| Hexadecanoic acid | 57-10-3 | 19.91 | 0.15 | 0.14 | 0.088 | 0.093 | Confirmed | 50% EtOH | LC/MS/UV |
| Unknown | NA | 17.55 | ND | ND | 0.085 | 0.037 | Unknown | 50% EtOH | GC/MS/FID |
| Unknown | NA | 19.83 | 0.042 | 0.11 | 0.083 | 0.13 | Unknown | 50% EtOH | LC/MS/UV |
| Cyclohexanone | 108-94-1 | 36.18 | 0.018 | 0.032 | 0.082 | 0.14 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| Acetaldehyde | 75-07-0 | 3.30 | 0.023 | 0.022 | 0.082 | 0.073 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| Unknown | NA | 18.76 | 0.045 | 0.058 | 0.072 | 0.075 | Unknown | 50% EtOH | LC/MS/UV |

GORE CONFIDENTIAL INFORMATION

# Organic Extractables Table

## GORE® STA-PURE® Pump Tubing Series PFL

Gore Part number: ZB14FE
Lot Number: B23801727921, B23801721006
Analysis Date: January 2026

| Compound | CAS | Retention Time, min | 24 Hours Extract 1, µg/cm² | 24 Hours Extract 2, µg/cm² | 21 Days Extract 1, µg/cm² | 21 Days Extract 2, µg/cm² | Identification Classification | Extraction Solvent | Analytical Technique |
|---|---|---|---|---|---|---|---|---|---|
| Disiloxane, 1,3-diethoxy-1,1,3,3-tetramethyl- | 18420-09-2 | 6.33 | ND | ND | 0.072 | 0.035 | Confident | 50% EtOH | GC/MS/FID |
| 13-Docosenamide, (13Z)- (Erucamide) | 112-84-5 | 21.87 | 0.060 | 0.042 | 0.070 | 0.070 | Confirmed | 50% EtOH | LC/MS/UV |
| Cyclohexanone | 108-94-1 | 36.18 | 0.023 | 0.022 | 0.068 | 0.11 | Confirmed | DI Water | HS GC/MS/FID |
| Octadecanoic acid | 57-11-4 | 20.73 | 0.12 | 0.11 | 0.068 | 0.072 | Confirmed | 50% EtOH | LC/MS/UV |
| Unknown | NA | 19.16 | 0.025 | 0.025 | 0.063 | 0.072 | Unknown | 50% EtOH | LC/MS/UV |
| Cyclohexanone | 108-94-1 | 36.18 | ND | ND | 0.062 | 0.11 | Confirmed | 0.1 M $H_3PO_4$ | HS GC/MS/FID |
| Benzoic acid | 65-85-0 | 1.25 | 0.015 | 0.010 | 0.060 | ND | Confirmed | DI Water | LC/MS/UV |
| 1-Ethylcyclohexanol | 1940-18-7 | 7.41 | ND | ND | 0.060 | 0.035 | Confident | 50% EtOH | GC/MS/FID |
| Silane, fluorotrimethyl- | 420-56-4 | 3.43 | ND | ND | 0.057 | 0.043 | Confident | 0.1 M $H_3PO_4$ | HS GC/MS/FID |
| Benzoic acid | 65-85-0 | 9.77 | ND | ND | 0.055 | 0.035 | Confident | 50% EtOH | GC/MS/FID |
| Silane, diethoxydimethyl- | 78-62-6 | 1.18 | 0.063 | 0.062 | 0.053 | 0.110 | Confident | DI Water | LC/MS/UV |
| Acetic acid, 2-ethylhexyl ester | 103-09-3 | 9.42 | 0.028 | ND | 0.048 | ND | Confident | 50% EtOH | GC/MS/FID |
| Cyclohexanone | 108-94-1 | 5.55 | ND | 0.035 | 0.045 | 0.035 | Confident | 50% EtOH | GC/MS/FID |
| Benzoic acid | 65-85-0 | 1.51 | 0.014 | 0.0088 | 0.045 | 0.033 | Confirmed | 0.1 M $H_3PO_4$ | LC/MS/UV |
| Unknown | NA | 16.58 | ND | ND | 0.043 | 0.048 | Unknown | 50% EtOH | LC/MS/UV |
| 1,5-Trisiloxanediol, 1,1,3,3,5,5-hexamethyl- | 3663-50-1 | 15.08 | ND | ND | 0.042 | 0.058 | Confident | 50% EtOH | LC/MS/UV |
| Unknown | NA | 8.70 | ND | 0.045 | 0.042 | 0.035 | Unknown | 50% EtOH | GC/MS/FID |
| Ethane, 1,1-diethoxy- | 105-57-7 | 3.36 | 0.018 | 0.022 | 0.040 | 0.018 | Confident | 50% EtOH | GC/MS/FID |
| Unknown | NA | 10.66 | ND | ND | 0.037 | 0.033 | Unknown | 50% EtOH | GC/MS/FID |
| Cyclohexanone | 108-94-1 | 5.55 | ND | ND | 0.035 | 0.053 | Confident | 0.5M NaOH | GC/MS/FID |
| Unknown | NA | 11.10 | ND | ND | 0.035 | 0.040 | Unknown | 50% EtOH | LC/MS/UV |
| 2-Propanone | 67-64-1 | 5.92 | ND | ND | 0.035 | 0.038 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| Octanoic acid | 124-07-2 | 9.88 | ND | ND | 0.028 | ND | Confident | 50% EtOH | GC/MS/FID |
| Cyclohexanone | 108-94-1 | 5.55 | ND | ND | 0.028 | 0.038 | Confident | DI Water | GC/MS/FID |
| Unknown | NA | 14.47 | ND | ND | 0.028 | 0.032 | Unknown | 50% EtOH | LC/MS/UV |

# Organic Extractables Table

## GORE® STA-PURE® Pump Tubing Series PFL

Gore Part number: ZB14FE
Lot Number: B23801727921, B23801721006
Analysis Date: January 2026

| Compound | CAS | Retention Time, min | 24 Hours Extract 1, µg/cm² | 24 Hours Extract 2, µg/cm² | 21 Days Extract 1, µg/cm² | 21 Days Extract 2, µg/cm² | Identification Classification | Extraction Solvent | Analytical Technique |
|---|---|---|---|---|---|---|---|---|---|
| N-phenyl-N-methylcarbamoyl chloride | 4285-42-1 | 8.27 | ND | ND | 0.028 | 0.022 | Confident | 0.1 M $H_3PO_4$ | LC/MS/UV |
| Octanoic acid | 124-07-2 | 9.82 | ND | ND | 0.027 | ND | Confident | 0.5 M NaOH | GC/MS/FID |
| Cyclohexanone | 108-94-1 | 5.55 | ND | ND | 0.025 | 0.050 | Confident | 0.1 M $H_3PO_4$ | GC/MS/FID |
| 1,5-Dioxacycloundecane-6,11-dione, 3,3-dimethyl- | 94113-47-0 | 12.45 | 0.025 | 0.040 | 0.023 | 0.038 | Confident | 50% EtOH | LC/MS/UV |
| 1,3-Disiloxanediol, 1,1,3,3-tetramethyl- | 1118-15-6 | 10.20 | ND | ND | 0.023 | 0.032 | Confident | 50% EtOH | LC/MS/UV |
| 1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester | 84-74-2 | 19.24 | ND | ND | 0.023 | 0.028 | Confident | 0.5 M NaOH | GC/MS/FID |
| Hexadecanoic acid | 57-10-3 | 19.24 | ND | ND | 0.023 | 0.028 | Confident | 0.5 M NaOH | GC/MS/FID |
| Ethanone, 1-(1-cyclohexen-1-yl)- | 932-66-1 | 8.88 | ND | ND | 0.023 | 0.022 | Confident | 50% EtOH | GC/MS/FID |
| Unknown | NA | 11.72 | ND | ND | 0.022 | 0.032 | Unknown | 50% EtOH | LC/MS/UV |
| Unknown | NA | 4.94 | ND | ND | 0.022 | 0.027 | Unknown | DI Water | LC/MS/UV |
| Benzaldehyde, 3,5-bis(1,1-dimethylethyl)-4-hydroxy- | 1620-98-0 | 17.16 | ND | ND | 0.022 | 0.022 | Confident | 50% EtOH | LC/MS/UV |
| 1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester | 84-74-2 | 18.07 | ND | ND | ND | 0.022 | Confident | 50% EtOH | LC/MS/UV |
| Benzoic acid | 65-85-0 | 9.67 | ND | ND | 0.020 | ND | Confident | DI Water | GC/MS/FID |
| Octanoic acid | 124-07-2 | 9.78 | ND | ND | 0.020 | ND | Confident | DI Water | GC/MS/FID |
| Cyclotrisiloxane, 2,2,4,4,6,6-hexamethyl- | 541-05-9 | 4.33 | ND | ND | 0.020 | 0.017 | Confident | 50% EtOH | GC/MS/FID |
| Aromatic | NA | 1.98 | ND | ND | 0.020 | 0.016 | Tentative | DI Water | LC/MS/UV |
| Unknown | NA | 10.72 | ND | ND | 0.018 | ND | Unknown | 50% EtOH | GC/MS/FID |
| Unknown | NA | 13.56 | ND | ND | 0.018 | ND | Unknown | 50% EtOH | GC/MS/FID |
| Unknown | NA | 4.93 | ND | ND | 0.018 | 0.025 | Unknown | 0.1 M $H_3PO_4$ | LC/MS/UV |
| Unknown | NA | 11.07 | ND | ND | 0.018 | 0.018 | Unknown | 0.1 M $H_3PO_4$ | LC/MS/UV |
| 9-Octadecenoic acid (9Z)-a | 112-80-1 | 20.17 | 0.018 | 0.011 | 0.018 | 0.015 | Confirmed | 50% EtOH | LC/MS/UV |
| 1-Cyclohexene-1-carboxaldehyde | 1192-88-7 | 7.48 | ND | ND | 0.017 | ND | Confident | 50% EtOH | GC/MS/FID |
| 1-Hexanol, 2-ethyl- | 104-76-7 | 37.57 | 0.017 | 0.020 | 0.017 | 0.025 | Confirmed | DI Water | HS GC/MS/FID |
| 1-Hexanol, 2-ethyl- | 104-76-7 | 37.58 | ND | ND | 0.017 | 0.025 | Confirmed | 0.1 M $H_3PO_4$ | HS GC/MS/FID |

# Organic Extractables Table

## GORE® STA-PURE® Pump Tubing Series PFL

Gore Part number: ZB14FE
Lot Number: B23801727921, B23801721006
Analysis Date: January 2026

| Compound | CAS | Retention Time, min | 24 Hours Extract 1, µg/cm² | 24 Hours Extract 2, µg/cm² | 21 Days Extract 1, µg/cm² | 21 Days Extract 2, µg/cm² | Identification Classification | Extraction Solvent | Analytical Technique |
|---|---|---|---|---|---|---|---|---|---|
| 1-Hexanol, 2-ethyl- | 104-76-7 | 37.58 | ND | ND | 0.017 | 0.023 | Confirmed | 0.5 M NaOH | HS GC/MS/FID |
| 1-Oxaspiro[4.5] deca-6,9-diene-2, 8-dione, 7,9-bis(1,1-dimethylethyl)- | 82304-66-3 | 17.21 | ND | ND | 0.015 | 0.030 | Confident | 50% EtOH | LC/MS/UV |
| 2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-hydroxy-4-methyl- | 10396-80-2 | 17.42 | ND | ND | 0.015 | 0.020 | Confident | 50% EtOH | LC/MS/UV |
| Unknown | NA | 14.25 | ND | ND | 0.011 | 0.018 | Unknown | DI Water | LC/MS/UV |
| 1,5-Dioxacycloundecane-6,11-dione, 3,3-dimethyl-dione, 3,3-dimethyl- | 94113-47-0 | 14.82 | ND | ND | ND | 0.018 | Confident | 50% EtOH | GC/MS/FID |

# Inorganic Extractables Table

## GORE® STA-PURE® Pump Tubing Series PFL

Gore Part number: ZB14FE
Lot Number: B23801727921, B23801721006
Analysis Date: January 2026

| Element | CAS | Reporting Limit, µg/cm² | Test Control, µg/cm² | Extract 1, µg/cm² | Extract 2, µg/cm² | Extraction Solvent | Analytical Technique |
|---|---|---|---|---|---|---|---|
| Silicon | 7440-21-3 | 0.0033 | 2.0 | 0.52 | 0.40 | 0.1 M $H_3PO_4$ | ICP/MS |
| Iron | 7439-89-6 | 0.0033 | < Reporting Limit | < Reporting Limit | 0.0040 | 0.1 M $H_3PO_4$ | ICP/MS |
| Zinc | 7440-66-6 | 0.0033 | < Reporting Limit | 0.0059 | 0.0048 | 0.1 M $H_3PO_4$ | ICP/MS |
| Aluminum | 7429-90-5 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Magnesium | 7439-95-4 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Platinum | 7440-06-4 | 0.00033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Lithium | 7439-93-2 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Vanadium | 7440-62-2 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Chromium | 7440-47-3 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Manganese | 7439-96-5 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Cobalt | 7440-48-4 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Nickel | 7440-02-0 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Copper | 7440-50-8 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Arsenic | 7440-38-2 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Molybdenum | 7439-98-7 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Cadmium | 7440-43-9 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Tin | 7440-31-5 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Antimony | 7440-36-0 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Barium | 7440-39-3 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Mercury | 7439-97-6 | 0.00033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |
| Lead | 7439-92-1 | 0.0033 | < Reporting Limit | < Reporting Limit | < Reporting Limit | 0.1 M $H_3PO_4$ | ICP/MS |

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