



CLARK
Laboratories, LLC

A Division of Clark Testing Group

American Industrial Hygiene Association accredited for asbestos (PLM and PCM), metals, anions, organic solvents, diffusive samplers, silica, and gravimetric analysis

AIHA Laboratory ID# 100355

CLARK
Testing Services, LLC

CLARK
Dynamic Test Laboratory, Inc.

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Laboratories, LLC

Industrial Hygiene Lab

Industrial Hygiene Lab Anions by Ion Chromatography



Dionex Model ICS-2000 Ion Chromatography System with Post-Column Reaction Unit and AD25 Absorbance Detector for determination of hexavalent chromium.

The American Industrial Hygiene Association (AIHA) accredits Clark Laboratories for the analysis of anions by Ion Chromatography. Fluoride, Chloride, Bromide, Sulfite, Sulfate, Nitrite, Nitrate, and Phosphate are among the anions that can be determined. A few examples are as follows:

The American Industrial Hygiene Association (AIHA) accredits Clark Laboratories for the analysis of anions by Ion Chromatography. Anions that can be determined:

- Fluoride
- Chloride
- Bromide
- Sulfite
- Sulfate
- Nitrite
- Nitrate
- Phosphate

A few examples are as follows:

Nitrogen Dioxide analysis by OSHA ID-182

Nitrogen Dioxide is a brownish gas with a pungent odor and is:

- Toxic
- Corrosive
- Highly reactive oxidant

NO₂ is commonly generated by combustion processes and can cause:

- Eye irritation
- Nose irritation
- Throat irritation
- Impaired lung function

Ozone analysis by OSHA 214

Ozone is a powerful oxidizing agent and a powerful non-chemical disinfectant. It is created naturally by electric charges as well as electrolytic and chemical reactions. Ozone is used in numerous industrial settings and can cause adverse changes in lung function.

Acids analyzed by NIOSH 7903

Many different acids may be determined by this method. Acids are used in many industrial applications.

Exposure to acids can cause:

- Irritation and severe burns
- Corrosive damage to
 - Skin
 - Eyes
 - Mucous membranes.

Hexavalent Chromium analysis by OSHA ID-215

Cr(VI) exposure is commonly associated with welding and painting operations and has many health effects including:

- Eye damage
- Nose irritation
- Throat irritation
- Lung irritation
- Dermatitis
- Skin ulcers
- Possible lung cancer

Clark Labs is now able to analyze hexavalent chromium by OSHA ID-215, Version 2. Historically, hexavalent chromium was analyzed using the NIOSH 7600 which is a spectrophotometric method. This method gives a detection limit of 0.25 µg/sample. The OSHA ID-215 V2 method uses Ion Chromatography, which allows for detection units as low as 0.01 µg/sample and minimal interferences.

Sampling Media

Clark Labs can supply all of the media needed for your sampling requirements including:

- Specially cleaned silica gel tubes
- Charcoal tubes
- PVC cassettes
- Treated GFF cassettes
- Treated MCE cassettes

For more information on these or any other industrial hygiene laboratory services, please contact us by phone at 412-387-1001, by fax at 412-387-1025, or on the web at www.clarklabslc.com and click on IH Lab.