



Hexavalent Chromium

Introduction: Hexavalent Chromium is encountered in welding of stainless steel, use of refractory bricks, battery production, pigments, catalysts, electroplating, textiles, tanning, wood preserving and industrial water treatment. Toxicity of hexachrom in dust, fumes and mists is a health concern. WHO, DHHS, USEPA, and IARC have determined that Hexavalent Chromium causes lung cancer in humans. In addition, mucous membranes and skin ulcers and perforation of the nasal septum occur.

Problem: There is a need for analytical services to support Hexavalent Chromium workplace exposure evaluation.

Solution: ALS Environmental offers low-level analysis of Hexavalent Chromium in Industrial Hygiene and Environmental matrices using methods NIOSH 7605, OSHA ID 215 and EPA 7196.

The Occupational Health and Safety Administration published their final standard on hexachrom in February 2006 setting the PEL to $5\mu\text{g}/\text{m}^3$ with an action level of $2.5\mu\text{g}/\text{m}^3$ over 8 hours.

ALS was involved with developing NIOSH method 7605 and is proficient at providing hexachrom analysis

- ALS performs hexachrom analysis using OSHA ID 215
- NIOSH 7605 and EPA 7196 can also be requested
- ALS is a premier analytical method research laboratory and was selected by NIOSH to perform and evaluate NIOSH 7605. Our research led to the publication of this method.

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ALS Environmental Rochester hexavalent chromium sample handling guide on reverse side..



For more information, scan the QR code or visit

alsglobal.com/environmental/services/north-america-environmental-services/hexavalent-chromium-testing.aspx



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Hexavalent Chromium:

Sample Preservation & Holding Time Summary



Method	Instrument	Matrix	MDL	RL	Sample Handling Guide	Holding Time
Hexavalent Chromium			units	units	Field Filter/Field Preserve within 24 hours of collection	
7196	Lachat	water	ug/L	ug/L		
SM 3500B-Cr	Lachat	water	0.4	10	none	24 hours
			0.4	10	none	24 hours
218.6-RL	Ion Chromatography	water	1.0	10	none	24 hours
218.6-RL	Ion Chromatography	water	1.0	10	9.3 - 9.7	28 days
218.6-LL	Ion Chromatography	water	0.009	0.02	none	24 hours
218.6-LL	Ion Chromatography	water	0.009	0.02	9.3 - 9.7	28 days
218.6-LL	Ion Chromatography	DW	0.009	0.02	none	24 hours
218.6-LL	Ion Chromatography	DW	0.009	0.02	9.3 - 9.7	5 days
7199	Ion Chromatography	water	1.0	10	none	24 hour
			mg/Kg	mg/Kg		
7196	Lachat	soil	1.04	4	none	28 days
7199	Ion Chromatography	soil	0.065	0.4	none	28 days

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