

LCS Laboratory Inc.

Accredited by AIHA LAP to ISO 17025-2017 standards

2024 Laboratory Price List



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Introduction

The 2024 price list is divided into several sections: Air Sampling Tests, Air Sampling Scans, Rental Equipment, Surface Tests, Microscopy, SDS and GHS tests, Miscellaneous tests. The price that you see below includes sampling media (with exception of diffusive samplers, laboratory analysis, and a laboratory report. If you have any questions, you can always email us to discuss your project at info@lcslaboratory.com.

Turn Around Time (TAT) and rush services

Our standard TAT is **10 business days**. The service time is calculated from the time we received your samples. Usually, 1-6 day expedited service is available. The same-day service must be booked in advance and the samples should be delivered by 11 AM. Please call us at (519) 777-5232 to make sure that we can accommodate your emergency project. The following surcharges will be added to the cost of rush orders:

TAT	Same day. by 6pm.	1-(next) business day	2 business days	3 business days	4 business days	6 business days	10 business days
Additional Surcharge	150%	100%	75%	50%	30%	20%	0%

Chain of Custody (CoC) form

Request for Analysis form is available for download from our [website](#).

Reports.

We send signed laboratory reports by email in Adobe PDF format. All reports are confidential and sent only to a person designated on the CoC form

Shipping and Handling

Domestic letters and parcels (within Canada). We accept shipping by Canada Post, FedEx, Purolator, UPS and any other Courier Company. When you use Canada Post, please use the “**no signature required**” option. Your parcel is delivered to our mail room and is safe there.

International letters and parcels (to Canada). We accept shipping by USPS, FedEx, and DHL. **WE DO NOT ACCEPT UPS DELIVERIES**. Please use ground shipping, because some samples are not safe for Air Services. Please email us the tracking number with a short message about your order. Please be careful when you prepare shipping papers, incorrect papers may delay the delivery. Your courier will ask:

- Goods description: describe what you are sending, like “sample of plaster for testing” or “Vermiculite for testing”
- Cost of goods: Your sample has no commercial value, please put a cost of \$1. If you need to put any other cost, please be aware that we will be charged border duties and taxes and we will reject the shipping.

- If you have an account with a courier company, please select “taxes and duties are paid by sender”, this will accelerate the border transition. We will reject the samples if we are asked to pay the duties.

To deliver in person: Please leave samples in the Sample Drop Box located in the entrance lobby. We collect samples from the Drop Box every hour.

AIHA LAP Accreditation

Our laboratory complies with the ISO 17025-2017 standard for testing laboratories. We participate in 8 rounds of external proficiency tests annually. We are accredited by American Industrial Hygiene Association Laboratory Accreditation Program (AIHA LAP) for Industrial Hygiene testing and Bulk Asbestos analysis. Our current certificate of accreditation is available from AIHA web site.

Currency.

All rates are in Canadian Dollars.

Subcontract work.

LCS Laboratory subcontracts several tests to ISO 17025 accredited laboratories in USA and Canada. Such tests are identified in the price list with superscript (s)

Single-component air testing

This section includes available tests of air samples collected on tubes or filters according to standard sampling procedures. **All prices are shown for the order of 2 and more samples.** Price includes sampling media (except Diffusive Samplers), analysis and reporting.

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Abietic Acid	SOP (HPLC UV)	5	95
Acetaldehyde	NIOSH 2018	0.5	95
Acetone	NIOSH 1300	10	55
Acetonitrile	NIOSH 1606	15	55
Acrolein (qualitative)	NIOSH 2018 ^{WM}	0.2	95
Acrylonitrile	NIOSH 1604	15	55
Alkaline Dust	NIOSH 7401	100	70
Aluminium ^S (respirable fraction)	NIOSH 7301	2	55
Ammonia	NIOSH 6015	5	70
Amyl Acetate (n-)	NIOSH 1450	10	55
Amyl Acetate (sec-)	NIOSH 1450	10	55
Antimony ^S	NIOSH 7301	1	55
Arsenic ^S	NIOSH 7301 ^{WM}	1	55
Asbestos Fibers in air (total fiber count)	NIOSH 7400	3000 ff	25
Asbestos Fibers in air (differential counting)	OSHA ID 160	3000 ff	25
Asphalt Fume (see "Benzene soluble")	-	-	-
Benzene	NIOSH 1500	3	55
Benzene Soluble Fraction (Please collect 1000L of air)	NIOSH 5042	100	70
Beryllium ^S	NIOSH 7301	0.1	55
Bromoethane; (Ethyl Bromide)	NIOSH 1011	15	55
Bromoform	NIOSH 1003	15	55
Bromopropane (1-)	NIOSH 1025	15	55
Butane	OSHA 2010 ^{WM}	10	55
Butoxyethanol (2-); (Butyl Cellosolve)	NIOSH 1403	10	55
Butoxyethyl Acetate (2-); (Butyl Cellosolve Acetate)	NIOSH 1403	10	55
Butyl Acetate (n-)	NIOSH 1450	10	55

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Butyl Acetate (sec-)	NIOSH 1450	10	55
Butyl Acetate (tert-)	NIOSH 1450	10	55
Butyl Alcohol (n-)	NIOSH 1401	10	55
Butyl Alcohol (sec-), Butanol-2	NIOSH 1401	10	55
Butyl Alcohol (tert-)	NIOSH 1400	10	55
Cadmium ^S	NIOSH 7301	2	55
Calcium ^S	NIOSH 7301	2	55
Carbon Black	OSHA ID 196 ^{WM}	100	70
Carbon Elemental, see Diesel Particulates	-	-	-
Carbon Tetrachloride	NIOSH 1003	15	55
Cellulose Fibers	NIOSH 7400	3000 ff	25
Charcoal (as loss on ignition)	NIOSH 5000	100	70
Chlorobenzene; (Monochlorobenzene)	NIOSH 1003	15	55
Chloroethane (Ethyl Chloride)	NIOSH 2519	15	55
Chloroform (Trichloromethane)	NIOSH 1003	15	55
Chromium ^S	NIOSH 7301	2	55
Chromium, Hexavalent (Cr(VI) soluble fraction only)	NIOSH 7600	0.5	70
Coal Dust (as loss on ignition)	NIOSH 5000	100	70
Coal Tar Pitch Volatiles (as Benzene Soluble, please collect 1000L)	OSHA 58	100	70
Coal Tar Pitch Volatiles (as selected PAH's)	OSHA 58	1	230
Cobalt ^S	NIOSH 7301	2	55
Coke Oven Emission (see Coal tar Pitch Volatiles)	-	-	-
Copper ^S	NIOSH 7301	2	55
Cresol	NIOSH 2546	10	55
Cumene	NIOSH 1501	5	55
Cyclohexane	NIOSH 1500	5	55
Cyclohexanol	NIOSH 1402	10	55
Cyclohexanone	NIOSH 1300	10	55
Decane	NIOSH 1500	5	55
Di(2-ethylhexyl)phthalate (DEHP)	OSHA 104	15	70

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Diacetone Alcohol	NIOSH 1402	10	55
Dibutyl Phthalate	NIOSH 5020	15	90
Dichlorobenzene (o-)	NIOSH 1003	15	55
Dichlorobenzene (p-)	NIOSH 1003	15	55
Dichloroethane (1,1-)	NIOSH 1003	15	55
Dichloroethane (1,2-)	NIOSH 1003	10	55
Dichloroethylene (1,2-)	NIOSH 1003	15	55
Dichloromethane	NIOSH 1005	10	55
Diesel Particulates ^s	NIOSH 5040	2	110
Diethyl Ether	NIOSH 1610	10	55
Diethyl Phthalate	OSHA 104	15	70
Diethylene Glycol	NIOSH 5523	20	70
Diethylene Glycol Monoethyl Ether	OSHA 2013	20	55
Diisobutyl Ketone; Dimethyl-4-Heptanone (2,6-)	NIOSH 1300	10	55
Dimethyl Phthalate	OSHA 104	15	70
Dioxane (1,4-)	NIOSH 1602	10	55
Dipropylene Glycol Methyl Ether	OSHA 101	15	55
Ethoxyethanol (2-); Cellosolve	NIOSH 1403	10	55
Ethoxyethyl Acetate (2-); Cellosolve Acetate	NIOSH 1450	10	55
Ethyl Acetate	NIOSH 1457	10	55
Ethyl Alcohol (Ethanol)	NIOSH 1400	10	55
Ethyl Amyl Ketone; 5-Methyl-3-heptanone	NIOSH 1301	10	55
Ethyl Butyl Ketone; (3-Heptanone)	NIOSH 1301	10	55
Ethyl Ether	NIOSH 1610	10	55
Ethylbenzene	NIOSH 1501	5	55
Ethylene Glycol (Mist and Vapour on OVS-7)	NIOSH 5523	15	95
Ethylene Glycol (Vapour on XAD-7)	NIOSH 5523	15	70
Ethylene Glycol Dimethyl Ether	OSHA 7	25	55
Fluoride Aerosol	NIOSH 7902	2	70
Fluoride Gas (see Hydrogen Fluoride)	-		

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Formaldehyde	NIOSH 2016	0.2	95
Formaldehyde in dust	NIOSH 5700	0.2	95
Glass, Fibrous	NIOSH 7400	3000 ff	25
Heptane (n-)	NIOSH 1500	5	55
Hexamethylene Diisocyanate (HDI)	OSHA 42	0.5	95
Hexane (n-)	NIOSH 1500	5	55
Hydrogen Fluoride	NIOSH 7902	2	70
Hydrogen Peroxide	OSHA 1019	10	70
Iron ^S	NIOSH 7301	5	55
Isoamyl Acetate	NIOSH 1450	10	55
Isoamyl Alcohol	NIOSH 1402	10	55
Isobutyl Acetate	NIOSH 1450	10	55
Isobutyl Alcohol	NIOSH 1401	10	55
Isocyanate (mono) (MDI, or HDI, or IPDI or TDI)	OSHA 42/47	0.5	95
Isooctane; (2,2,4-Trimethyl pentane)	NIOSH 1500	5	55
Isophorone	NIOSH 2508	10	55
Isophorone Diisocyanite (IPDI)	OSHA 2534	1	95
Isopropyl Acetate	NIOSH 1454	10	55
Isopropyl Alcohol	NIOSH 1400	10	55
Isopropyl Ether	NIOSH 1618	10	55
Kerosene	NIOSH 1555	25	55
Lead ^S	NIOSH 7301	2	55
Limonene	NIOSH 1552	5	55
Lithium ^S	NIOSH 7301	2	55
Magnesium ^S	NIOSH 7301	2	55
Manganese ^S	NIOSH 7301	2	55
Mercury, Particulate	NIOSH 6009	1	70
Mercury, Vapour	NIOSH 6009	0.1	70
Metal Working Fluid	NIOSH 5524	100	70
Methanol (Methyl Alcohol)	NIOSH 2550	15	55

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Methoxy-1-propanol (2-); (2M1P); Propylene Glycol Methyl Ether	OSHA 99	15	55
Methoxy-1-propyl Acetate (2-)	OSHA 99	10	55
Methoxy-2-propanol (1-); (1M2P)	OSHA 99	15	55
Methoxy-2-propyl Acetate (1-); (1M2PA)	OSHA 99	10	55
Methoxyethanol (2-); (Methyl Cellosolve)	NIOSH 1403	5	55
Methoxyethyl Acetate (2-); (Methyl Cellosolve Acetate)	NIOSH 1451	5	55
Methyl Acetate	NIOSH 1458	10	55
Methyl Acrylate	NIOSH 1459	10	55
Methyl Amyl Ketone; Heptanone-2	NIOSH 1301	10	55
Methyl Butyl Ketone; Hexanone (2-); (MBK)	NIOSH 1300	10	55
Methyl Cyclohexane	NIOSH 1550	5	55
Methyl Ethyl Ketone	NIOSH 2550	10	55
Methyl Isoamyl Acetate	NIOSH 1455	10	55
Methyl Isobutyl Carbinol	NIOSH 1402	10	55
Methyl Isobutyl Ketone	NIOSH 1300	10	55
Methyl Methacrylate	NIOSH 2537	10	55
Methyl Styrene (alpha-), Vinyl Toluene	NIOSH 1551	5	55
Methyl-2-pyrrolidinone (N-)	NIOSH 1302	10	55
Methylene Bisphenyl Isocyanate (MDI) (See Isocyanate)	OSHA 47	-	-
Mineral Oil	NIOSH 5526	25	95
Mineral Oil (as metal working fluid)	NIOSH 5524	100	70
Mineral Spirit	NIOSH 1555	25	55
Mold Spore Count and ID	ASTM D7391	100 fs/m ³	45
Molybdenum ^S	NIOSH 7301	2	55
Naphtha (V M & P Naphtha)	NIOSH 1555	10	55
Naphthalene	NIOSH 1551	5	55
Nickel ^S	NIOSH 7301	2	55
Nickel Soluble and Insoluble ^S (as inhalable dust)	NIOSH 7301	2	70
Nickel Soluble ^S (as inhalable dust)	NIOSH 7301	2	90
Nicotine	NIOSH 2544 ^{WM}	5	70

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Nitrobenzene	NIOSH 2555	10	55
Nonane (n)	NIOSH 1550	5	55
Nonene-1	NIOSH 1550	5	55
Oil Mist (see Mineral Oil)	-	-	-
Octane (n)	NIOSH 1550	5	55
Particle size distribution (air dust collected on MCE or PCM filter)	SOP	1%	100
Particulates Inhalable (IOM rent is extra)	MDHS 14/4	100	25
Particulates Inhalable and Respirable (reported separately), (IOM rent is extra)	MDHS 14/4	100 (each)	40
Particulates PM1 (Cyclone rental is extra)	NIOSH 0600 ^{WM}	100	25
Particulates PM10 (Cyclone rental is extra)	NIOSH 0600 ^{WM}	100	25
Particulates PM2.5 (Cyclone rental is extra)	NIOSH 0600 ^{WM}	100	25
Particulates Respirable (Cyclone rental is extra)	NIOSH 0600	100	25
Particulates Thoracic (Cyclone rental is extra)	NIOSH 0600 ^{WM}	100	25
Particulates Total	NIOSH 0550	100	25
Pentane (n-)	NIOSH 1550	5	55
Pentanone (2-); Methyl Propyl Ketone	NIOSH 1300	10	55
Peracetic Acid	SOP	5	110
Petroleum Ether	NIOSH 1555	10	55
Phenol	NIOSH 2546	10	55
Phenylcyclohexene (4-); 4-PCH	NIOSH 1551	5	70
Phenyl Ether; Diphenyl Ether	NIOSH 1617	10	55
Phosphorus ^S	NIOSH 7301 ^{WM}	25	55
Polymer Dust (as combustible dust)	SOP	100	70
Potassium Hydroxide (as Potassium)	NIOSH 7301	15	55
Potassium ^S	NIOSH 7301	7	55
Propyl Acetate (n-)	NIOSH 1455	5	55
Propyl Alcohol (n-)	NIOSH 1401	10	55
Propylene Glycol on OVS-7	NIOSH 5523	25	90
Pyridine	NIOSH 1613	15	55
Quinone (1,4-Benzoquinone)	NIOSH S181	5	95

Compound ID	Method #	Reporting Limit (µg)	2+ Samples \$/sample
Silica, Crystalline (Quartz and Cristobalite)	NIOSH 7602	5	85
Silicone Oil	NIOSH 5526 ^{WM}	25	95
Silver ^S	NIOSH 7301	2	55
Sodium Hydroxide (see "Alkaline dust")	-	-	-
Sodium ^S	NIOSH 7301	10	55
Soot in air (see Diesel Particulates)	-	-	-
Stoddard Solvent (Mineral Spirits)	NIOSH 1555	10	55
Styrene	NIOSH 1551	5	55
Synthetic Vitreous Fibres	NIOSH 7400	3000 ff	25
Tetrachloroethane (1,1,2,2-)	NIOSH 1019	25	55
Tetrachloroethylene; (Perchloroethylene)	NIOSH 1003	25	55
Tetrahydrocannabinol dust	SOP	1	95
Tetrahydrofuran	NIOSH 1609	5	55
Toluene	NIOSH 1551	5	55
Toluene Diisocyanate (TDI)	OSHA 42	0.5	95
Trichloroethane (1,1,1-)	NIOSH 1003	15	55
Trichloroethane (1,1,2-)	NIOSH 1003	15	55
Trichloroethylene	NIOSH 1022	15	55
Triglycidylisocyanurate (TGIC)	MDHS 85 ^{WM}	10	95
Trimethylbenzene (1,2,3-)	OSHA 2591	5	55
Trimethylbenzene (1,2,4-)	OSHA 2591	5	55
Trimethylbenzene (1,3,5-); (Mesitylene)	OSHA 2591	5	55
TVOC (Naphtha Range)	NIOSH 1555	5	55
Urea Formaldehyde Foam Insulation (as formaldehyde in dust)	NIOSH 5700	0.2	95
Urea Formaldehyde Foam Insulation vapour (as formaldehyde)	NIOSH 2516	0.2	95
Vanadium ^S	NIOSH 7301	2	55
Vinyl Acetate; 1-Acetoxyethylene, VAM	NIOSH 1453	10	55
Xylenes	NIOSH 1551	5	55
Zinc ^S	NIOSH 7301	2	55

Notes: Reporting limit can be changed by laboratory; S- test will be subcontracted to a laboratory accredited to ISO 17025 general accreditation level; WM – method used with modification

Multi-element tests and scans

Multiple tests can often be performed on a single sample. Some examples are presented below. For your specific project. **All prices are shown for the order of 2 or more samples.** Price is given in Canadian dollars and includes sampling media, analysis and reporting.

Compounds in the scan	Method	2+ Samples \$/sample
Isocyanate scans (monomers)	OSHA 42/47	1 st 95, Additional- 30
Metals by ICP, scan for <u>any</u> of 19 metals below: aluminum, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, strontium, tin, zinc	NIOSH 7301 ^S	1 st metal - 55 Additional - 10
Metals by ICP, scan for selected 12 heavy metals: cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, silver, tin, zinc	NIOSH 7301 ^S	90
Metals by ICP, scan for 19 metals: aluminum, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, strontium, tin, zinc	NIOSH 7301 ^S	105
Metals by ICP, scan for 20 metals: aluminum, barium, <u>beryllium</u> , cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, strontium, tin, zinc	NIOSH 7301 ^S	120
Metals by ICP, scan for 22 metals: aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, silver, sodium, strontium, tin, zinc	NIOSH 7301 ^{S, WM}	130
Metals by ICP, scan for 23 metals: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, silver, sodium, strontium, tin, zinc	NIOSH 7301 ^{S, WM}	140
PAH's scan (16 compounds). Detection limit 10 ug/sample	NIOSH 5515	160
PAH's scan (16 compounds). Detection Limit 0.2 ug/sample	NIOSH 5556	230
Phenol and total Phenols	OSHA 32	110
Solvent scan by GC FID (choose your own solvents, and call us to discuss) ¹⁾	SOP	1 st 55, Additional- 25
Silica, Crystalline (Quartz and Cristobalite)	NIOSH 7602	85

Notes: 1. Please call to confirm with us if the scan can be performed for your set of analytes; S- test will be subcontracted to an ISO 17025 accredited laboratory; WM – method used with modification

Air Sampling Equipment Rent

LCS Laboratory Inc., offers air sampling equipment to our clients at the rental rates of approximately 1/3 of the industry average. The rates are calculated from the day the equipment leaving our laboratory to the day we receive it back. Lost or damaged equipment is invoiced at repair or replacement cost. One-way shipping insurance will be added to the shipping cost.

Equipment	Daily Rate (\$ per calendar day)	Weekly Rate (\$ per 7 calendar days)	Monthly Rate (\$ per 30 calendar days)
Air Sampling Pump (Low Flow range 0.02-0.25 L/min) *)	20	40	80
Air Sampling Pump (Standard Flow range 1-3 L/min) *)	20	40	80
Air Sampling Pump (High Flow range 2-15 L/min) *)	20	40	80
Air Sampling manifold, 1-ports (flow controller)	10	20	40
Air Sampling manifold, 2-ports	10	20	40
Air Sampling manifold, 3-ports	10	20	40
Air Sampling manifold, 4-ports	10	20	40
Cassette Holder with a hose	3	5	10
Charger for sampling pumps (per pump)	3	5	10
Cyclone Aluminum (2.5 L/min)	10	20	40
Cyclone Aluminum with a clip (for Respirable Dust, 4.2L/min)	20	40	80
Cyclone Aluminum with a clip (for Thoracic Dust, 1.6L/min)	20	40	80
Cyclone Nylon (Dorr Oliver) (for Respirable Dust, 1.7L/min)	10	20	40
Diffusive Sampler	30	-	-
Inhalable Sampler (IOM)	10	20	40

Note: *) The pumps are not intrinsically safe. Pump pre- and post-calibration will be charged at \$10/pump

Surface Testing for Health and Safety

This section lists tests for non-volatile chemicals collected as surface samples. The surface samples can be collected as wipe samples, micro vacuum samples and tape lift. **All methods are modified from original methods** to be used for surface samples. Field blank sample should be analysed with every project. **All prices are shown for the order of 2 and more samples.** Price includes sampling media, analysis and reporting.

Compound	Reference Method	Sampling technique	Media	Reporting Limit (µg)	2+ Samples \$/sample
Abietic Acid	SOP (HPLC UV)	Wipe	AP	5	100
Acids Total	SOP (Titration)	Wipe	GF	100	70
Alkaline Dust	Titration	Wipe	AP	100	70
Asbestos Dust. Particles larger than 100mkm	EPA 600/R-93/116	Wipe	AP	0.5% in ash	45
Asbestos Dust. Particles larger than 100mkm	EPA 600/R-93/116	MV	AP	0.5% in ash	45
Cellulose Fibers	NIOSH 7400	TL	CT	1% in dust	25
Carbon Black (in loose dust)	SOP	MV	PVC	20	55
Dust Identification by Microscopy	SOP (PLM, PCM)	MV	PCM	1%	See microscopy
Dust Mineral	SOP (gravimetric)	Wipe	AP	100	40
Dust, Total (in loose dust)	NIOSH 0500	MV	PVC	100	25
Fibers	NIOSH 7400	MV	PCM	3000 ff	25
Fluoride	NIOSH 7902	Wipe	AP	2	70
Formaldehyde in dust	NIOSH 5700	Wipe/MV	AP	0.2	110
Glass Fibres	NIOSH 7400	MV	PCM	3000 ff	25
Lead on Ghost Wipes	NIOSH 7301	Wipe	AP	2	55
Metal (one metal in sample, like Lead)	NIOSH 7301	Wipe	AP	2	55
Metal Scan	NIOSH 7301	Wipe	AP	2	60 for the first metal +10 for each additional metal
Metal Working Fluid	NIOSH 5524	Wipe	AP	100	110
Mold Spore Count and ID	ASTM D7391	TL	CT	100 sp/cm ²	45
Nicotine	NIOSH 2551	Wipe	Cotton	5	110
Oil Mineral	NIOSH 5526	Wipe	AP	100	110

Compound	Reference Method	Sampling technique	Media	Reporting Limit (µg)	2+ Samples \$/sample
Oil Organic / Vegetable	NIOSH 5526	Wipe	AP	100	110
Oil Silicone	NIOSH 5526	Wipe	AP	100	110
PAH (list of 16)	NIOSH 5556	Wipe	AP	0.2	230
Silica, Crystalline (Quartz and Cristobalite)	NIOSH 7602	Wipe	AP	5	130
Tetrahydrocannabinol	HPLC UV	Wipe	AP	1	110

Notes: Wipe- wipe sampling of a surface of standard size; TL – Tape Lift; MV-Microvacuuming; AP – Alcohol Pads; GF – Glass Fibre filter; CT – Clear Tape (Transparent tape), PVC – pre-weighed PVC filter; PCM – PCM style cassette with 25 mm MCE filter; QF- Quartz filter in 37 mm cassette. Cotton wipe

Microscopy of loose dust

LCS Laboratory offers Stereo, Light, Phase Contrast and Polarized Light Microscopy for analysis of your samples

Test	\$/sample
Laboratory reports recognizable particles reported with their approximate concentration in per cent on sample. The list includes: glass fibres, manmade fibres, cellulose fibres, insect parts, plant parts, paint chips, rust flakes, plastic shavings, metal dust, environmental dust, mold spores, and other. Particles with concentration 1% and more are identified and reported	70
Additional Option 1. Particle size distribution 1-100 micron range	100
Additional Option 2. Digital images (jpg format). Includes images of 3 areas per sample	55

Material Identification for Construction, Demolition, and Abatement projects

This list includes tests commonly used on construction and demolition projects in order to determine the presence of potentially harmful materials.

Test	Method	Reporting Limit	\$/sample
Asbestos in Construction Materials (except Vermiculite). Gravimetric Reduction, 400 – point count ¹⁾	EPA 600/R-93/116	0.5%	27
Asbestos in Construction Materials (except Vermiculite). Gravimetric Reduction, 1000 – point count ¹⁾	EPA 600/R-93/116	0.1%	68
Asbestos in Vermiculite ¹⁾	EPA/600/R-04/004 & EPA 600/R-93/116	0.1%	55
Coal Tar screening. This test is based on ASTM standard for coal tar solubility	ASTM D455/D4	NA	55
Coal Tar screening. This test is based on ASTM standard for coal tar solubility, and fluorescent analysis for PAH/PCA presence	ASTM D455/D4; SOP	NA	75
Coal Tar Pitch Volatiles in roofing tar. Scan for 16 PAH by GC FID	NIOSH 5515	0.05%	160
Lead in Paint ^S	NIOSH 7301	0.01%	60
Material identification (test on bulk material for glass fibres, cellulose fibres, hair, manmade fibres, paint chips, rust, biological materials, plants, insect parts, mineral dust, metal dust)	SOP	1%	70
Methylenedianiline (MDA) in construction foam	SOP	0.01%	140
Silica, Crystalline (Quartz and Cristobalite) total	NIOSH 7602 ^{WM}	0.5%	130
Urea Formaldehyde Foam Insulation (UFFI)	SOP	Yes/No test	70
Urine in construction materials	SOP	Yes/No test	70

Note: S- subcontract; 1) If the “stop at positive” option is requested, the samples that were prepared but not tested will be invoiced at 30% of the test rate.

Mold, pollen, and common allergens

Test	Method	Reporting Limit	2+ Samples \$/sample
Mold in air, spore count and ID on Air-O-Cell or Allergenco D cassettes (5 min sampling)	ASTM D7391	100 fs/m ³	45
Mold in air, spore count and ID on PCM cassettes (6-8 hour personal or area TWA sample)	NIOSH 7400/ ASTM D7391	300 fs/m ³	45
Mold on surface. Spore count and ID	SOP (PCM)	10 fs/cm ²	45
Mold on tape lift. Spore count and ID	SOP (PCM)	10 fs/cm ²	45
Allergens in air. Includes: Mold spore count and ID spores/m ³ , pollen count spores /m ³ , plant tissue (particles/m ³), Dog dander (particles/m ³), Bird dander (particles/m ³), Miscellaneous/Unidentifiable dander (particles/m ³), Animal hair (fibers/m ³), Human hair (fibers/m ³), Bird feather fibers (fibers/m ³), Insect dust (particles/m ³) on PCM cassettes (6-8 hour personal or area TWA sample)	NIOSH 7400/ ASTM D7391	300 spores/m ³	90

Tests for investigation of fire-related contamination. Surface sampling

These are tests developed for the detection of trace amounts of smoke residue on materials exposed to fire. **All prices are shown for the order of 2 and more samples.**

Test	Method	2+ Samples \$/sample
Ash. Sampling: Use tape lift to collect suspected ash residue	The laboratory identify ash using micro reaction of ash particles (carbonate salt) with acidified microscope oil. The results are reported as “present” or “not detected”	70
Polycyclic Aromatic Compounds (PAC). Sampling: Use alcohol wipes to collect samples from a standardized area. Collect samples from glossy non-porous surfaces like glass, steel, or ceramic. Protect samples from direct light. Use a glass container for shipping. The laboratory requires at least one sample and one blank sample for analysis.	The laboratory uses internally developed method and quantifies Total PAC using Thin Layer Chromatography and fluorescence. The results are reported as “present” or “not detected”	70
Coal Tar Pitch Volatiles (PAH). Sampling: Use 100% cotton wipes (cheese cloth) to collect samples from a standardized area. Collect sample from glossy non-porous surface like glass, steel, or ceramic. Protect samples from direct light. Use Glass container for shipping. Laboratory requires at least 2 samples: one sample from the area of concern and one blank sample for analysis	NIOSH 5556 with modification Reporting Limit 1 ug	230
Soot (sub micron size carbon) . Sampling: Use alcohol wipes to collect samples from a standardized area. Collect the samples from glossy non-porous surfaces like glass, steel, or ceramic. DO NOT COLLECT FROM PAINTED SURFACES, CONCRETE, VINYL FLOORS. Laboratory requires at least one sample and one blank sample for analysis.	The laboratory uses an internally developed method and quantifies soot using UV-VIS spectroscopy in combination with the size separation technique. Reporting Limit 10 ug	60
Carbon Black and Charcoal (carbonised particles larger than 5 microns). Sampling: Use alcohol wipes to collect samples from a standardized area. Collect the samples from glossy non-porous surfaces like glass, steel, or ceramic. The laboratory requires at least one sample and one blank sample for analysis.	The laboratory uses an internally developed method and quantifies carbon black using UV-VIS spectroscopy in combination with the size separation technique. Reporting Limit 20 ug	60

Test	Method	2+ Samples \$/sample
<p>Total Tar and Oils. Sampling: Use 100% cotton wipes (cheese cloth) to collect samples from a standardized area. The laboratory requires at least one sample and one blank sample for analysis.</p>	<p>The laboratory extracts organic tars and oils from the wipes and quantifies it using gravimetric analysis. The reporting limit is 100 ug</p>	<p>70</p>
<p>Composition of settled dust Sampling: Use the micro vacuuming technique to collect the dust sample from a solid surface. The PCM cassette is used as a micro vacuuming device to collect and safely preserve the dust sample for laboratory testing. The laboratory requires at least one sample for analysis.</p>	<p>The laboratory uses Phase Contrast and Polarizing Light Microscopy to identify collected dust. We identify and report the following materials: carbon black, mineral dust, cellulose, manmade fibres, glass fibres, insect parts, metal rust, paint chips</p>	<p>70</p>

Material Identification for the development of Safety Data Sheets (SDS)

This list includes tests commonly used to establish the composition of the products.

Test	Method	Reporting Limit	\$/sample
Asbestos	EPA 600/R-93/116	0.1%	68
Ash concentration	Gravimetric, loss on ignition	1%	70
Formaldehyde leachable	HPLC UV	0.05%	90
Metals in bulk or ash ^S	ICP AES	0.05%	155
Organics (solid) tentative identification by FTIR with database search	FTIR	75%	250
Organics (volatile) identification by GC MS with database search	GC MS	1%	450
PAH's leachable	HPLC -UV	0.05%	255
Organic Content	Gravimetric, loss on ignition	1%	70
Polymer tentative identification by FTIR with database search	FTIR	75%	130
Silica, Crystalline (Quartz and Cristobalite) total	NIOSH 7602 ^{WM}	0.5%	130

Note: S- subcontract; RQ-Request Quote; WM – With Modification

Physical Properties Tests for development of Safety Data Sheet (SDS)

Test	Notes	2+ Samples \$/sample
Flash Point (closed cup)	Range from 2 to 93°C. Method ASTM D56	120
Initial Boiling Point	Range from 30 to 150°C. Method OECD 103	120
Initial Melting Point	Range from 0 to 150°C. Method OECD 102	120
Partition Coefficient Oil/Water	Method OECD 117	RQ
pH of water extract	Range from 1 to 12 as per OECD 122 method	55
Solubility in water (solids)	The reported solubility range is from 100 to 10,000 mg/L. Method OECD105	155
Specific Gravity of Liquid	Method OECD 109, 2 decimals accuracy	70
Specific Gravity of Solid	Method OECD 109, 2 decimals accuracy	70

RQ – Request a Quote

Tests for Classification of Materials under Globally Harmonized System (GHS)

Tests that are used for the classification of potentially dangerous goods.

Class	Test	Notes	Price \$/sample
Class 3. Flammable Liquids	Flash Point (closed cup)	Range from 5 to 90°C. ASTM D56	120
Class 4. Flammable Solids	Readily Combustible	Burning Rate Test, flame propagation rate. Test performed in triplicate	300
Class 4. Flammable Solids	Self- heating Substances	UN N4 test, 100, 125, 140°C, 140°C (25 mm cell) tests. Or EPA 1055 140°C test. 24 hour test.	700/temp.
Class 4. Flammable Solids	Water Reactive Substances	Spontaneous ignition at contact with water test, and gas evolution screening test. Test performed in triplicate	300
Class 4. Flammable Solids	Water Reactive Substances	Gas evolution rate. 7-hour test is performed in triplicate	550
Class 8. Corrosives	Corrosion Rate of Metals	Corrosion rate of 3 steel and 3 aluminum coupons at 55°C as per ASTM G31-72 method. Aluminum AL 7075-T6, Steel C-1025. Results for the rate of uniform and pitting corrosion are reported separately for every coupon	600
Class 8. Corrosives	Skin Corrosion	OECD 435. Corrositex procedure. Test is performed on 4 subsamples. Includes the cost of screening test.	1300

Miscellaneous Material Testing

Test	Notes	Price \$/sample
Particle size distribution (75-5500 microns)	separation on sieves	70
Particle size distribution (2-75 microns)	1-75 micron, Phase contrast microscopy	100
PM20 in bulk	ASTM D7928 (with modification)	100
PM10 in bulk	ASTM D7928 (with modification)	100
PM4 in bulk	ASTM D7928 (with modification)	100
PM2.5 in bulk	ASTM D7928 (with modification)	100
PM (any size) in bulk	ASTM D7928 (with modification)	100