



## Laboratory Services Offered by the IRSST

PRICE LIST



### **Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST)**

Laboratory Division  
505, boul. de Maisonneuve Ouest, Montréal, Québec  
H3A 3C2

[www.irsst.qc.ca](http://www.irsst.qc.ca)

### **Customer Service – Laboratory Division**

Phone : 514 288-1551  
Analyses : Ext. 315  
Instrument Calibration and Rental : Ext. 306  
Fax : 514 288-9632  
[sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca)

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## INTRODUCTION

Our laboratory services are offered to the occupational health network and to private enterprises.

Our services include environmental, toxicological and microbiological analyses, sampling equipment, instrument rental and calibration, and tests on Respiratory Protective Devices and Protective Footwear.

For environmental and microbiological analyses, we recommend that you consult the Sampling Guide for Air Contaminants in the Workplace on the IRSST's Web site. [www.irsst.qc.ca](http://www.irsst.qc.ca)

For toxicological analyses, we recommend that you consult the *Guide de surveillance biologique – Stratégie de prélèvement et interprétation des résultats* and Le guide de prélèvement des échantillons biologiques also available on the IRSST's Web site : <https://www.irsst.qc.ca/en/publications-tools/publication/i/336/n/surveillance-biologique> .

## POLICY ON THE USE OF THE LABORATORY SERVICES OFFERED BY THE IRSST

### Cost

The cost of the sampling equipment is included in the costs of analysis, unless otherwise stated.

The costs of the analytical services and instrument-related services are in effect as of January 1<sup>st</sup>, 2023.

The cost for a field blank analysis is the same as a sample.

### Terms of payment

The client agrees to pay the IRSST for the costs of service within 30 days of receipt of the invoice.

Using the following methods:

- Cheque payable to the IRSST
- Bank transfer: Banking information is on the invoice
- For payments by bank transfer, please email the payment slip to [compte.recevable@irsst.qc.ca](mailto:compte.recevable@irsst.qc.ca)

### Sampling equipment

Except for toxicological analyses, the client agrees to use only the sampling equipment supplied by the IRSST, according to the *Sampling Guide for Air Contaminants in the Workplace*.

For toxicological analyses, the client agrees to obtain the sampling equipment himself, according to the *Guide de prélèvement des échantillons biologiques*.

If the equipment ordered is not all used, the unused quantity must be returned to us within 60 days; otherwise, it will be billed at market costs.

## Samples reception

Business hours: Monday to Friday 8AM to 12PM & 1PM to 4PM

Samples received at the laboratory before 4 PM will be considered received the same day for analysis delay determination.

Samples received after 4 PM at the laboratory will be considered received the next business day.

## Calibration certificates

The calibration certificates issued by the IRSST are subject to a copyright in accordance with accreditation requirements.

However, the client is authorized to reproduce all calibration certificates in whole (as stipulated on the certificates) for its own instruments in order to demonstrate, if need be, that they were calibrated according to IRSST's standards.

## Purchase order

- ✓ The client has to enter its Purchase Order number on the request form if he wishes it to appear on the invoice.

## Subcontracted work

- ✓ In some situations or for certain analyses, the IRSST laboratory subcontracts to other laboratories thoroughly selected according to our accreditation requirements. If applicable, the client authorization is required beforehand. A comment will then appear on the IRSST report, and the subcontractor laboratory's report will be provided. Additional costs of 25% will be billed as well as the costs for the sampling equipment, if applicable.

## Rush turnaround

- ✓ Additional costs of 25% will be applicable if any analysis needs to be prioritized compared to regular delay. Such demands need prior approval by the Laboratory that are to be addressed through Customer Service.
- ✓ Additional costs of 25% will be applicable for any urgent request for equipment rental, meaning within a maximum of 5 business days following reception of the instrument rental request.
- ✓ Additional costs of 25% will be applicable for any urgent request for instrument calibration, meaning within a maximum of 5 business days following reception of the request.

## How to access our Services

Services are available through our *ClicLab* web service: <https://cliclab.irsst.qc.ca/Login>

For customers who have not yet registered to *ClicLab*, please contact Laboratory Customer Service by email at [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca) or at 514-288-1551, extension 306.

New customers will first need to fill our registration forms available on the Laboratory Services page of the IRSST web site: <https://www.irsst.qc.ca/en/laboratories/register> .

## Accreditation

With recognized expertise in occupational health and safety services, the IRSST has several accreditations that guarantee to its partners and clients the quality, integrity and recognition of its work.

### Areas of accreditation and organizations

The Analytical and Calibration Laboratories are accredited by these organizations according to ISO/IEC 17025:2017 standard.

#### **American Industrial Hygiene Association - Laboratory Accreditation Program (AIHA LAP)**

- Asbestos
- Metals (including beryllium)
- Silica
- Solvents
- Ions
- Respirable compressed air (CRA)

Scope of accreditation of analytical laboratories:

<https://www.aihaaccreditedlabs.org/lab-accreditation-programs/find-an-accredited-lab> - Lab ID : LAP-101913

#### **Calibration Laboratory Assessment Service (CLAS) from National Council Research of Canada (NRC)**

- Acoustic
- Flow

Scope of accreditation of calibration laboratories:

- CLAS: <https://nrc.canada.ca/en/certifications-evaluations-standards/calibration-laboratory-assessment-service/directory-accredited-calibration-laboratories/clas-certificate-number-94-01>
- SCC (Standard Council of Canada):  
[https://www.scc.ca/en/system/files/client-scopes/ASB\\_SOA\\_15162\\_CLAS\\_431\\_Scope\\_v6\\_2023-05-24\\_EN.pdf](https://www.scc.ca/en/system/files/client-scopes/ASB_SOA_15162_CLAS_431_Scope_v6_2023-05-24_EN.pdf)

## Instrument rental policy

- 1) The client agrees to use the instrument according to the specifications described in the instrument's user manual or in any IRSST document accompanying the instrument. The instrument and its briefcase must be returned to IRSST, decontaminated and in good condition.
- 2) The costs of repair, cleaning or replacement made necessary following the use of the instrument are assumed in whole by the client. This includes damage caused during transportation, if applicable.
- 3) The rental costs are calculated on a daily, weekly, or monthly basis (20 business days) and include a calibration certificate issued by the IRSST laboratories, dated within the last year. Additionally, a functional check is performed before the instrument is shipped.
- 4) The rented instrument is made available to the client around 4 p.m. on the day before the first day of rental (business day).
- 5) The rented instrument must be returned to the IRSST's laboratories before 12 noon on the day following the final day of rental (business day).
- 6) Any cancellation will result in a penalty equivalent to a one-day rental fee per instrument that will be billed to the client, unless a two days' notice is given prior to the rental period.
- 7) For any instrument and sampling equipment shipments done by the IRSST, the IRSST assumes the transportation and insurance costs.
- 8) For any instrument and sampling equipment shipments done by the client, the latter assumes the transportation and insurance costs.
- 9) All rentals or rental extensions must be arranged with Laboratory Customer Service (514) 288-1551, ext. 306, or by e-mail: [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca).

**Reminder:** After confirmation with the Laboratory Customer Service regarding the availability of the instrument for rental within 10 business days, any request requiring rental within a shortened timeframe of 5 business days will incur an additional 25% fee.

## COSTS OF ANALYTICAL SERVICES

### Environmental analyses

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
1,1,1-Trichloroethane	2120	Activated charcoal tube, 100/50	\$95	\$50
1,1,1-Trichloroethane	2696	Passive dosimeter	\$95	\$50
1,1,2-Trichloroethane	2120	Activated charcoal tube, 100/50	\$95	\$50
1,2-Dichloroethane	2120	Activated charcoal tube, 100/50	\$95	\$50
1,2-Dichloroethylene	2120	Activated charcoal tube, 100/50	\$95	\$50
1,3-Butadiene	2189	Activated charcoal tube with TBC	\$135	Not applicable
1,3-Dimethylnaphtalene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75
1,3-Dimethylnaphtalene – Tube	2187	Orbo 42 L tube	\$150	\$75
1-Bromopropane	2120	Activated charcoal tube, 100/50	\$95	\$50
1-Methoxy-2-propanol	2120	Activated charcoal tube, 100/50	\$135	\$75
1-Methylnaphtalene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75
1-Methylnaphtalene – Tube	2187	Orbo 42 L tube	\$150	\$75
2-Aminoethanol	955	Impregnated filter	\$190	\$90
2-Butoxyethanol	2120	Activated charcoal tube, 100/50	\$135	\$75
2-Butoxyethyl acetate	2120	Activated charcoal tube, 100/50	\$135	\$75
2-Ethoxyethanol	2120	Activated charcoal tube, 100/50	\$135	\$75
2-Methylnaphtalene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75
2-Methylnaphtalene – Tube	2187	Orbo 42 L tube	\$150	\$75
2-Methoxyethanol	2120	Activated charcoal tube, 100/50	\$135	\$75
2,3,5-Trimethylnaphtalene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
2,3,5-Trimethylnaphtalene – Tube	2187	Orbo 42 L tube	\$150	\$75
3-Carene	2120	Activated charcoal tube, 100/50	\$95	\$50
Acenaphthene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75
Acenaphthene – Tube	2187	Orbo 42 L tube	\$150	\$75
Acenaphtylene – Cassette	911	Glass Fiber Filter 37 mm 0.8 µm	\$150	\$75
Acenaphtylene – Tube	2187	Orbo 42 L tube	\$150	\$75
Acetaldehyde	2186	Orbo 23 tube	\$150	\$75
Acetaldehyde (High sensitivity)	2196	Silica tube DNPH + KI	\$200	\$100
Acetaldehyde	2610	Passive dosimeter: Aldehyde 571AT	\$190	\$65
Acetic acid	2120	Activated charcoal tube, 100/50	\$110	Not applicable
Acetone	2120	Activated charcoal tube, 100/50	\$95	\$50
Acetone	2696	Passive dosimeter	\$95	\$50
Acrolein	2186	Orbo 23 tube	\$150	\$75
Allyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
Aluminum	990	Solu-Sert™ filter 25 mm	\$75	\$40
Aluminum	992	Solu-Sert™ filter 37 mm	\$75	\$40
Aluminum (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm, IOM in plastic	\$75	\$40
Aluminum (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Aluminum (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Aluminium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Aluminum	3090	Wipe sample kit for metals	\$65	See package
Aluminum	100	Miscellaneous	\$65	\$40
Aluminum (sol. salts)	903	PVCF 37 mm, 5 µm	\$65	Not applicable
Ammonia	2144	Treated charcoal tube	\$135	Not applicable
Aniline	955	Impregnated filter	\$190	\$90
Anthracene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Anthracene – Tube	2187	Orbo 42 L tube	\$150	\$75
Arsenic	990	Solu-Sert™ filter 25 mm	\$75	\$40
Arsenic	992	Solu-Sert™ filter 37 mm	\$75	\$40
Asbestos fibers by TEM (Tiles and other material)	100	Miscellaneous	\$400	Not applicable
Barium, soluble	903	PVCF 37 mm, 5 µm	\$65	Not applicable
Barium, soluble	100	Miscellaneous	\$65	Not applicable
Barium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Barium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Benz(a)anthracene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Benz(a)anthracene – Tube	2187	Orbo 42 L tube	\$150	\$75
Benzene	2120	Activated charcoal tube, 100/50	\$95	\$50
Benzene	2696	Passive dosimeter	\$95	\$50
Benzo(b+j+k)fluoranthene - Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Benzo(b+j+k)fluoranthene - Tube	2187	Orbo 42 L tube	\$150	\$75
Benzo(a)pyrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Benzo(a)pyrene – Tube	2187	Orbo 42 L tube	\$150	\$75
Benzo(e)pyrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Benzo(e)pyrene – Tube	2187	Orbo 42 L tube	\$150	\$75
Benzo(c)phenanthrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Benzo(c)phenanthrene – Tube	2187	Orbo 42 L tube	\$150	\$75
Benzo(g,h,i)perylene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Benzo(g,h,i)perylene – Tube	2187	Orbo 42 L tube	\$150	\$75
Benzyl chloride	2120	Activated charcoal tube, 100/50	\$95	\$50
Beryllium	990	Solu-Sert™ filter 25 mm	\$95	Not applicable
Beryllium	992	Solu-Sert™ filter 37 mm	\$95	Not applicable
Beryllium (inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$95	Not applicable
Beryllium	3090	Wipe sample kit for metals	\$90	Not applicable
Beryllium	100	Miscellaneous	\$65	\$40
Butyl acetate (all isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
Butyraldehyde	2186	Orbo 23 tube	\$150	\$75
Cadmium	990	Solu-Sert™ filter 25 mm	\$75	\$40
Cadmium	992	Solu-Sert™ filter 37 mm	\$75	\$40
Cadmium (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Cadmium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Cadmium (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40

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Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Cadmium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Cadmium	3090	Wipe sample kit for metals	\$65	See package
Cadmium	100	Miscellaneous	\$65	\$40
Camphor (synthetic)	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Carbon tetrachloride	2120	Activated charcoal tube, 100/50	\$95	\$50
Chlorodifluoromethane	2121	Activated charcoal tube # 2 226-09	\$95	Not applicable
Chloroform	2120	Activated charcoal tube, 100/50	\$95	\$50
Chromium	990	Solu-Sert™ filter 25 mm	\$75	\$40
Chromium	992	Solu-Sert™ filter 37 mm	\$75	\$40
Chromium (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Chromium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Chromium (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Chromium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Chromium	3090	Wipe sample kit for metals	\$65	See package
Chromium	100	Miscellaneous	\$65	\$40
Chromium VI, water insoluble	976	Quartz filter	Only available in package	
Chromium VI, water soluble	976	Quartz filter	Only available in package	
Chromium VI, acid aerosol	977	Pretreated quartz filter	\$198	Not applicable
Chrysene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Chrysene – Tube	2187	Orbo 42 L tube	\$150	\$75

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Cobalt	990	Solu-Sert™ filter 25 mm	\$75	\$40
Cobalt	992	Solu-Sert™ filter 37 mm	\$75	\$40
Cobalt (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Cobalt (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Cobalt (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Cobalt (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Cobalt	3090	Wipe sample kit for metals	\$65	See package
Cobalt	100	Miscellaneous	\$65	\$40
Copper	990	Solu-Sert™ filter 25 mm	\$75	\$40
Copper	992	Solu-Sert™ filter 37 mm	\$75	\$40
Copper (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Copper (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Copper (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Copper (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Copper	3090	Wipe sample kit for metals	\$65	See package
Copper	100	Miscellaneous	\$65	\$40
Cristobalite, crystalline silica	902	PVCF pre-weighed, 37 mm, 5 µm	\$185	\$25
Cristobalite, crystalline silica	997	PVCF 37 mm, 5 µm pre-weighed, 3 parts	\$185	\$25

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Cumene	2120	Activated charcoal tube, 100/50	\$95	\$50
Cumene	2696	Passive dosimeter	\$95	\$50
Cyclohexane	2120	Activated charcoal tube, 100/50	\$95	\$50
Cyclohexane	2696	Passive dosimeter	\$95	\$50
Cyclohexanol	2120	Activated charcoal tube, 100/50	\$95	\$50
Cyclohexanone	2127	Chromosorb 106 tube	\$135	Not applicable
Desflurane	2190	Anasorb 747 tube	\$95	\$50
Determination of quartz silica in materials	100	See important information page	See page 31	Not applicable
Diacetone alcohol	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Dibenz(a,h)anthracene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Dibenz(a,h)anthracene – Tube	2187	Orbo 42 L tube	\$150	\$75
Diesel particulate matter (as total carbon)	952	Traited quartz fiber filter, 25 mm, 3 parts	\$200	Not applicable
Diesel particulate matter (as total carbon)	953	Traited quartz fiber filter, 37 mm, 3 parts	\$200	Not applicable
Diesel, fuel (as total hydrocarbons)	2120	Activated charcoal tube, 100/50	\$95	\$50
Diethanolamine, inhalable fraction	956	FV filter impregnated with H <sub>2</sub> SO <sub>4</sub> , 25 mm, amines	\$190	Not applicable
Diethyl ether	2120	Activated charcoal tube, 100/50	\$95	\$50
Diethylene glycol monobutyl ether	2120	Activated charcoal tube, 100/50	\$135	\$75
Diisobutyl ketone	2120	Activated charcoal tube, 100/50,	\$95	\$50
Dimethylamine	955	Impregnated filter	\$190	\$90
Dioxane	2120	Activated charcoal tube, 100/50	\$95	\$50

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Dusts, inhalable - disposable cassette	922	PVCF 25 mm, 5 µm, disposable IOM, pre-weighed	\$50	Not applicable
Dusts, inhalable and respirable	924	DRS PVCF 25mm, 5 µm, disposable IOM + Polyurethane foam, pre-weighed	\$85	Not applicable
Dusts, respirable	902	PVCF, 37 mm, 5 µm pre-weighed	\$40	Not applicable
Dusts, respirable	914	PVCF 25 mm, 5 µm, pre-weighed	\$40	Not applicable
Dusts, respirable	997	PVCF 37 mm, 5 µm, pre-weighed, 3 parts cassette	\$40	Not applicable
Dusts, respirable	940*	MVCF 37 mm, 5 µm, pre-weighed, PPI impactor	\$40	Not applicable
Dusts, total	902	PVCF 37 mm, 5 µm, pre-weighed	\$40	Not applicable
Dusts, total	910	PVCF 37 mm, 5 µm, pre-weighed, Accu-CAP® insert	\$50	Not applicable
Dusts, total	914	PVCF 25 mm, 5 µm, pre-weighed	\$40	Not applicable
Dusts, total	997	PVCF 37 mm, 5 µm, pre-weighed, 3 parts cassette	\$40	Not applicable
Enflurane	2120	Activated charcoal tube, 100/50	\$95	\$50
Epichlorohydrin	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Ethyl acetate	2120	Activated charcoal tube, 100/50	\$95	\$50
Ethyl acetate	2696	Passive dosimeter	\$95	\$50
Ethyl acrylate	2189	Activated charcoal tube with TBC	\$105	\$65
Ethyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
Ethyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Ethyl alcohol	2696	Passive dosimeter	\$95	\$50
Ethyl benzene	2120	Activated charcoal tube, 100/50	\$95	\$50
Ethyl benzene	2696	Passive dosimeter	\$95	\$50
Ethyl glycol acetate	2120	Activated charcoal tube, 100/50	\$135	\$75
Fibers Count by PCM (Phase Contrast Microscopy)	918	MCEF 25 mm, 0.8 µm	\$105	Not applicable
Fibers Identification by PLM (Polarized Light Microscopy)	100	Miscellaneous	\$195	Not applicable
Fluoranthene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Fluoranthene – Tube	2187	Orbo 42 L tube	\$150	\$75
Fluorene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Fluorene – Tube	2187	Orbo 42 L tube	\$150	\$75
Formaldehyde (Mass Spectrometry)	2186	Orbo 23 tube	\$150	\$75
Formaldehyde (Quebec RSST Regulation)	2610	Passive dosimeter: Aldehyde 571AT	\$190	\$65
Formaldehyde (High sensitivity – ACGIH recommendation)	2196	Silica tube DNPH + KI	\$200	\$100
Furfural	2186	Orbo 23 tube	\$150	\$75
Furfuryl alcohol	2162	Porapak Q tube	\$150	Not applicable
Gasoline	2120	Activated charcoal tube, 100/50	\$95	\$50
Halothane	2120	Activated charcoal tube, 100/50	\$95	\$50
HDI (monomer) – High sensitivity	970	Impregnated GF filter	\$200	\$60

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
HDI (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
HDI (oligomers)	917	Teflon and Glass fibre filters with jar	See package	See package
HDI (monomer)	1415	Impinger	See package	See package
HDI (oligomers)	1415	Impinger	See package	See package
HDI (monomer)	981	Impinger with filter for isocyanate	See package	See package
HDI (oligomers)	981	Impinger with filter for isocyanate	See package	See package
Heptanal	2186	Orbo 23 tube (20257-U)	\$150	\$75
Heptane (all isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
Hexanal	2186	Orbo 23 tube (20257-U)	\$150	\$75
Hexane (other isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
HMDI (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
HMDI (oligomers)	917	Teflon and Glass fibre filters with jar	See package	See package
HMDI (monomer) - High sensitivity	970	Impregnated GF filter	\$200	\$60
Hydrobromic acid	974	Impregnated Quartz Filters (2)	\$150	\$75
Hydrochloric acid	974	Impregnated Quartz Filters (2)	\$150	\$75
Indeno(1,2,3-cd)pyrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Indeno(1,2,3-cd)pyrene – Tube	2187	Orbo 42 L tube	\$150	\$75
IPDI (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
IPDI (oligomer)	917	Teflon and Glass fibre filters with jar	See package	See package
IPDI (monomer)	1415	Impinger	See package	See package
IPDI (oligomers)	1415	Impinger	See package	See package
IPDI (monomer)	981	Impinger with filter for isocyanate	See package	See package

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
IPDI (oligomers)	981	Impinger with filter for isocyanate	See package	See package
IPDI (monomer) – High sensitivity	970	Impregnated GF filter	\$200	\$60
Iron	990	Solu-Sert™ filter 25 mm	\$75	\$40
Iron	992	Solu-Sert™ filter 37 mm	\$75	\$40
Iron (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Iron (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Iron (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Iron (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Iron	3090	Wipe sample kit for metals	\$65	See package
Iron	100	Miscellaneous	\$65	\$40
Isobutyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
Isobutyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
Isobutyl alcohol	2696	Passive dosimeter	\$95	\$50
Isobutyraldehyde	2186	Orbo 23 tube	\$150	\$75
Isoflurane	2120	Activated charcoal tube, 100/50	\$95	\$50
Isophorone	2120	Activated charcoal tube, 100/50	\$95	\$50
Isopropyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
Isopropyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
Isopropyl alcohol	2696	Passive dosimeter	\$95	\$50
Isopropylamine	955	Impregnated filter	\$190	\$90

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Isovaleraldehyde	2186	Orbo 23 tube	\$150	\$75
Kerosene	2120	Activated charcoal tube, 100/50	\$95	\$50
Lead	990	Solu-Sert™ filter 25 mm	\$75	\$40
Lead	992	Solu-Sert™ filter 37 mm	\$75	\$40
Lead (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Lead (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Lead (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Lead (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Lead	3090	Wipe sample kit for metals	\$65	See package
Lead	100	Miscellaneous	\$65	\$40
Limonene	2120	Activated charcoal tube, 100/50	\$95	\$50
Magnesium	990	Solu-Sert™ filter 25 mm	\$75	\$40
Magnesium	992	Solu-Sert™ filter 37 mm	\$75	\$40
Magnesium (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Magnesium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Magnesium (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Magnesium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Magnesium	3090	Wipe sample kit for metals	\$65	See package
Magnesium	100	Miscellaneous	\$65	\$40
Manganese	990	Solu-Sert™ filter 25 mm	\$75	\$40
Manganese	992	Solu-Sert™ filter 37 mm	\$75	\$40
Manganese (Inhalation fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Manganese (Inhalation fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Manganese (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Manganese (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Manganese	3090	Wipe sample kit for metals	\$65	See package
Manganese	100	Miscellaneous	\$65	\$40
MDI (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
MDI (oligomers)	917	Teflon and Glass fibre filters with jar	See package	See package
MDI (monomer)	1415	Impinger	See package	See package
MDI (oligomers)	1415	Impinger	See package	See package
MDI (monomer)	981	Impinger with filter for isocyanate	See package	See package
MDI (oligomers)	981	Impinger with filter for isocyanate	See package	See package
MDI (monomer) – High sensitivity	970	Impregnated GF filter	\$200	\$60
2-Methoxyethanol (EGME)	2120	Activated charcoal tube, 100/50	\$135	\$75
Methyl acetate	2120	Activated charcoal tube, 100/50	\$95	\$50
Methyl acetate	2696	Passive dosimeter	\$95	\$50
Methyl acrylate	2189	Activated charcoal tube with TBC	\$105	\$65

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Methyl alcohol	2140	Silica gel tube	\$95	Not applicable
Methyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
Méthylamine	955	Impregnated filter	\$190	\$90
Methyl ethyl ketone	2120	Activated charcoal tube, 100/50	\$95	\$50
Methyl ethyl ketone	2190	Anasorb 747 tube	\$135	Not applicable
Methyl ethyl ketone	2696	Passive dosimeter	\$95	\$50
Methyl formate	2121	Activated charcoal tube, 400/200	\$95	Not applicable
Methyl glycol acetate	2120	Activated charcoal tube, 100/50	\$135	\$75
Methyl isoamyl ketone	2120	Activated charcoal tube, 100/50	\$95	\$50
Methyl isobutyl ketone	2120	Activated charcoal tube, 100/50,	\$95	\$50
Methyl isobutyl ketone	2696	Passive dosimeter	\$95	\$50
Methyl methacrylate	2185	Anasorb 727 tube	\$150	Not applicable
Methyl n-amyl ketone	2120	Activated charcoal tube, 100/50	\$95	\$50
Methyl propyl ketone	2120	Activated charcoal tube, 100/50	\$95	\$50
Methylcyclohexane	2120	Activated charcoal tube, 100/50	\$95	\$50
Methylcyclohexanol	2120	Activated charcoal tube, 100/50	\$95	\$50
Methylene chloride	2120	Activated charcoal tube, 100/50	\$95	\$50
Methylene chloride	2696	Passive dosimeter	\$95	\$50
Methyl styrene (alpha)	2120	Activated charcoal tube, 100/50	\$95	\$50
Mineral composition (phase identification)	100	Miscellaneous	\$215	Not applicable
Morpholine	955	Impregnated filter	\$190	\$90
N,N-Dimethylformamide	2140	Silica gel tube (226-10)	\$95	Not applicable

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Naphtha, VM and P	2120	Activated charcoal tube, 100/50	\$95	\$50
Naphthalene	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Naphthalene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Naphthalene – Tube	2187	Orbo 42 L tube	\$150	\$75
n-Butyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
n-Butyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
n-Butyl alcohol	2696	Passive dosimeter	\$95	\$50
Heptane (all isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
n-Hexane	2120	Activated charcoal tube, 100/50	\$95	\$50
n-Hexane	2696	Passive dosimeter	\$95	\$50
n-Propyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
n-Propyl alcohol	2696	Passive dosimeter	\$95	\$50
Nickel	990	Solu-Sert™ filter 25 mm	\$75	\$40
Nickel	992	Solu-Sert™ filter 37 mm	\$75	\$40
Nickel (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Nickel (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Nickel (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Nickel	3090	Wipe sample kit for metals	\$65	See package
Nickel	100	Miscellaneous	\$65	\$40
Nickel (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Nickel, soluble	903	PVCF 37 mm, 5 µm	\$65	Not applicable
Nitric acid	974	Impregnated Quartz Filters (2)	\$150	\$75
N-Nitrosodibutylamine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosodiethylamine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosodimethylamine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosodipropylamine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosomethylethylamine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosomorpholine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosopiperidine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
N-Nitrosopyrrolidine	2210	Florisil tube, 500 mg	Nitrosamines Package only	
Nonane	2120	Activated charcoal tube, 100/50	\$95	\$50
Nonane	2696	Passive dosimeter	\$95	\$50
n-Pentane (all isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
Octane and Isooctane	2120	Activated charcoal tube, 100/50	\$95	\$50
o-Dichlorobenzene	2120	Activated charcoal tube, 100/50	\$95	\$50
Oil mist	960	Teflon B. oil filter	\$210	Not applicable
Oil mist (inhalable fraction)	961	Teflon filter, 25 mm, IOM	\$210	Not applicable
p-Chlorotrifluoromethylbenzene	2120	Activated charcoal tube, 100/50	\$95	\$50
p-Dichlorobenzene	2120	Activated charcoal tube, 100/50	\$95	\$50
Pentyl acetate (all isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Perchloroethylene	2120	Activated charcoal tube, 100/50	\$95	\$50
Perchloroethylene	2696	Passive dosimeter	\$95	\$50
Phenanthrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Phenanthrene – Tube	2187	Orbo 42L tube	\$150	\$75
Phenol	2198	XAD-7 Tube 100/50	\$155	Not applicable
Phosphoric acid	975	Quartz filter and vial	\$150	Not applicable
Pinene (alpha)	2120	Activated charcoal tube, 100/50	\$95	\$50
Pinene (beta)	2120	Activated charcoal tube, 100/50	\$95	\$50
Propionaldehyde	2186	Orbo 23 tube	\$150	\$75
Propylene glycol monomethyl ether	2120	Activated charcoal tube, 100/50	\$135	\$75
Pyrene – Cassette	911	Glass Fiber Filter 37 mm, 0.8 µm	\$150	\$75
Pyrene – Tube	2187	Orbo 42 L tube	\$150	\$75
Pyridine	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Quantitative analysis of solvents	2120	Activated charcoal tube, 100/50	\$95	\$50
Quartz, crystalline silica	902	PVCF 37 mm, 5 µm pre-weighed	\$185	\$25
Quartz, crystalline silica	997	PVCF 37 mm, 5 µm pre-weighed, 3 parts	\$185	\$25
Rubber solvent	2120	Activated charcoal tube, 100/50	\$95	\$50
sec-Butyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50
sec-Butyl alcohol	2197	Anasorb 747 SKC 226-82 (pack of 2)	\$130	\$50
Sevoflurane	2190	Anasorb 747 tube	\$95	\$50
Silver	905	MCEF 37 mm, 0.8 µm	\$65	Not applicable
Soluble fraction in benzene	911	Glass Fiber Filter 37 mm, 0.8µm	\$200	Not applicable

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Solvent composition	100	Miscellaneous	\$250	Not applicable
Solvent composition	2120	Activated charcoal tube, 100/50	\$250	Not applicable
Stoddard solvent	2120	Activated charcoal tube, 100/50	\$95	\$50
Styrene (monomer)	2120	Activated charcoal tube, 100/50	\$95	\$50
Styrene (monomer)	2696	Passive dosimeter	\$95	\$50
Sulfuric acid	944	PPI cassette with quartz filter and vial	\$150	Not applicable
TDI-2,4 (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
TDI-2,4 (oligomers)	917	Teflon and Glass fibre filters with jar	See package	See package
TDI-2,4 (monomer)	1415	Impinger	See package	See package
TDI-2,4 (oligomers)	1415	Impinger	See package	See package
TDI-2,4 (monomer)	981	Impinger with filter for isocyanate	See package	See package
TDI-2,4 (oligomers)	981	Impinger with filter for isocyanate	See package	See package
TDI-2,4 (monomer) – High sensitivity	970	Impregnated GF filter	\$200	\$60
TDI-2,6 (monomer)	917	Teflon and Glass fibre filters with jar	See package	See package
TDI-2,6 (oligomers)	917	Teflon and Glass fibre filters with jar	See package	See package
TDI-2,6 (monomer)	1415	Impinger	See package	See package
TDI-2,6 (oligomers)	1415	Impinger	See package	See package
TDI-2,6 (monomer)	981	Impinger with filter for isocyanate	See package	See package
TDI-2,6 (oligomers)	981	Impinger with filter for isocyanate	See package	See package
TDI-2,6 (monomer) – High sensitivity	970	Impregnated GF filter	\$200	\$60
tert-Butyl alcohol	2120	Activated charcoal tube, 100/50	\$95	\$50

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Tetrahydrofuran	2120	Activated charcoal tube, 100/50	\$95	\$50
Thallium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Thallium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Toluene	2120	Activated charcoal tube, 100/50	\$95	\$50
Toluene	2696	Passive dosimeter	\$95	\$50
Total organic matter- (asphalt fumes)	937	PTFE filter 1µm 37 mm pre-weighed with Orbo 42L tube	\$160	Not applicable
Trichloroethylene	2120	Activated charcoal tube, 100/50	\$95	\$50
Trichloroethylene	2696	Passive dosimeter	\$95	\$50
Trichlorotrifluoroethane	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Triglycidyl isocyanurate	910	PVCF 37 mm, pre-weighed Accucap insert, 5 µm	\$270	Not applicable
Trimethyl benzene	2120	Activated charcoal tube, 100/50	\$95	\$50
Trimethyl benzene	2696	Passive dosimeter	\$95	\$50
Turpentine	2120	Activated charcoal tube, 100/50	\$95	\$50
Valeraldehyde	2186	Orbo 23 tube	\$150	\$75
Vanadium	990	Solu-Sert™ filter 25 mm	\$75	\$40
Vanadium	992	Solu-Sert™ filter 37 mm	\$75	\$40
Vanadium (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm, IOM in plastic	\$75	\$40
Vanadium (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40

Substances	Equipment	Description of equipment	Cost for substance # 1	Cost for each extra substance
Vanadium (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Vanadium (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Vanadium	3090	Wipe sample kit for metals	\$65	See package
Vanadium	100	Miscellaneous	\$65	\$40
Vinyl acetate	2195	Orbo 92 tube	\$95	Not applicable
Vinyl chloride (monomer)	2120	Activated charcoal tube, 100/50	\$95	Not applicable
Xylenes (o, m, p isomers)	2120	Activated charcoal tube, 100/50	\$95	\$50
Xylenes (o, m, p isomers)	2696	Passive dosimeter	\$95	\$50
Zinc	990	Solu-Sert™ filter 25 mm	\$75	\$40
Zinc	992	Solu-Sert™ filter 37 mm	\$75	\$40
Zinc (Inhalable fraction)	928	MCEF 0.8 µm, 25 mm IOM in plastic	\$75	\$40
Zinc (Inhalable fraction)	948	Cassette and MCE filter, 25 mm, 5 µm, disposable inhalable (DIS)	\$75	\$40
Zinc (Respirable fraction)	941*	MCEF 0.8 µm, 37 mm, PPI Impactor	\$65	\$40
Zinc (inhalable and respirable particles)	949	Disposable multi-fraction sampler, 25mm MCE, 5µm (DRS)	\$150	\$80
Zinc	100	Miscellaneous	\$65	\$40

\* An extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

## Determination of quartz silica in materials

Analysis	Cost
<p>This analysis is only applicable to the following materials:</p> <ul style="list-style-type: none"> <li>- Aggregate</li> <li>- Asphalt</li> <li>- Brick</li> <li>- Cement</li> <li>- Ceramic</li> <li>- Concrete</li> <li>- Fibre cement</li> <li>- Granite</li> <li>- Mortar</li> <li>- Sandstone</li> <li>- Slate</li> </ul> <p><b>Quantity of material required:</b> between 15 ml and 150 ml. If the quantity received is &lt; 15ml, a loss of sensitivity of the analysis is possible or even an impossibility to carry out the analysis.</p> <p><b>Only one material per sample:</b> do not mix materials in a single sample (e.g., a piece of mortar on a piece of brick). Each material represents one sample.</p> <p>The types of materials sampled must be specified on the analysis request.</p>	<p style="text-align: center;">\$215 per material</p>

## Toxicological analyses

Analyses	Cost *
Arsenic, urinary, by ICP-MS (speciation)	\$180
Cadmium, urinary, by ICP-MS	\$70
Carboxyhemoglobin	\$25
Chromium, urinary, by ICP-MS	\$70
Cobalt, urinary, by ICP-MS	\$70
Fluorine, urinary	\$80
Hemoglobin, total	\$25
1-Hydroxypyrene, urinary	\$320
Lead, blood	\$54
Mandelic acid, urinary (AML)	\$300
Mercury, blood	\$54
Mercury, urinary	\$70
4,4'-Diaminodiphenylmethane, urinary (MDA)	\$320
o,m,p-Methylhippuric acids, urinary (AMH)	\$300
Nickel, urinary, by ICP-MS	\$70
o-cresol, urinary	\$300
Phenylglyoxylic acid, urinary (AP)	\$300
S-Phenylmercapturic acid, urinary (SPMA)	\$300

***\*Urinary density and creatinine analyses are included in the cost of the analysis***

## Microbiological analyses

Our team offers a tailor-made service for assessment and monitoring of biological risks in the workplace. Please contact us at [risquesbio@irsst.qc.ca](mailto:risquesbio@irsst.qc.ca) for requests and needs that are beyond the analyzes listed below.

Analyses	Basic cost	Additional cost *	Cost by genus	Cost by species
Bacterial count	\$75	\$50	n/a	n/a
Bacterial identification **	\$75	\$50	\$100	\$125
Endotoxins	\$315	n/a	n/a	n/a
Gram negative count	\$75	\$50	n/a	n/a
Gram negative identification **	\$75	\$50	\$100	\$125
Identification and enumeration of <i>Legionella pneumophila</i> and <i>Legionella</i> sp (culture method) **	\$325	n/a	Included in basic cost	\$100
Detection and Quantification of <i>Legionella</i> genus bacteria by ddPCR (molecular biology method) ***	\$275	n/a	n/a	n/a
Mycological count	\$75	\$50	n/a	n/a
Mycological identification **	\$75	\$50	\$125	\$150
Mycological structure (bulk)	\$125	n/a	n/a	n/a
Mycological structure on slides	\$100	n/a	n/a	n/a
Characterization and counting of mold spores (subcontracted analysis) ****	SC****	n/a	n/a	n/a

\*Additional cost for sampling on cassette, for liquid or solid process samples, and for water samples. No additional cost for air samples with a petri.

\*\*Identification costs include count costs for air and process samples.

\*\*\* **A service agreement must first be created.** Please email your request to this address: [risquesbio@irsst.qc.ca](mailto:risquesbio@irsst.qc.ca)

\*\*\*\* SC =Subcontractor. Additional information available on page 3.

## Efficacy evaluation Tests on Masks

### Type of mask : N95-Type Respiratory Protective Device (APR)

#### Evaluation of the filtration efficacy of an N95-type respiratory protective device (RPD)

Respiratory Filtration efficiency and differential pressure evaluation by comparison to an N95 NIOSH certified respirator under title 42 CFR 84.

*A minimum of **10 RPD** per lot is required, per each testing request (one lot = one request).*

**\$1150  
per request**

### Type of mask : Filtering Face Protection (FFP)

#### FFP performance evaluation

Filtering Face Protection (FFP) filtration efficiency determination for 20 nm to 4000 nm particules following Appendix A of BNQ\* 1922-900/2020 attestation document.

*A minimum of **10 masks** per lot is required, per each testing request (one lot = one request).*

**\$1150  
per request**

\* BNQ : Bureau de Normalisation du Québec



## Slip Tests for Evaluating Protective Footwear (cont.)

Slip Resistance	
<p>Evaluation of the slip resistance of protective footwear with the ASTM F3445 method:</p> <p><b>ASTM F3445 test:</b></p> <p>According to the ASTM F3445 standard, it is necessary to evaluate 6 footwear specimens (3 pairs, i.e., 3 left and 3 right) of the same size and model and for the same gender (men's or women's) with the ASTM F2913 method in the following conditions:</p> <ul style="list-style-type: none"> <li>• 3 pairs of footwear of one model: 3 left and 3 right</li> <li>• one surface: quarry tile</li> <li>• 2 surface conditions: dry and wet</li> <li>• 2 slip modes: forward heel and backward forepart slip modes</li> </ul> <p><b>A service agreement must first be created.</b> Please email your request to this address:  <a href="mailto:test-EPI@irsst.qc.ca">test-EPI@irsst.qc.ca</a></p>	<p><b>ASTM F3445</b>  <b>test = \$260/pair x</b>  <b>3 pairs = \$780</b></p>

## PACKAGES

<p><b>12 metals by ICP-MS</b>  <b>Cassette 941*</b>                      (air sample) or                      bulk sample</p>	<p><b>11 metals by ICP-MS</b>  <b>Ghost Wipe - 3090</b></p>	<p><b>13 metals by ICP-MS</b>  <b>Solu-Sert™ cassette</b>                      990 et 992</p>	<p><b>14 metals by ICP-MS</b>  <b>Disposable Inhalable Sampler</b>                      (DIS) 948</p>
<p><b>185 \$</b></p>	<p><b>175 \$</b></p>	<p><b>195 \$</b></p>	<p><b>195 \$</b></p>
<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Copper</li> <li>• Iron</li> <li>• Magnesium</li> <li>• Manganese</li> <li>• Nickel</li> <li>• Lead</li> <li>• Vanadium</li> <li>• Zinc</li> </ul>	<ul style="list-style-type: none"> <li>• Alumimium</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Copper</li> <li>• Iron</li> <li>• Magnesium</li> <li>• Manganese</li> <li>• Nickel</li> <li>• Lead</li> <li>• Vanadium</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Arsenic</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Copper</li> <li>• Iron</li> <li>• Magnesium</li> <li>• Manganese</li> <li>• Nickel</li> <li>• Lead</li> <li>• Vanadium</li> <li>• Zinc</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Barium</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Copper</li> <li>• Iron</li> <li>• Magnesium</li> <li>• Manganese</li> <li>• Nickel</li> <li>• Lead</li> <li>• Thallium</li> <li>• Vanadium</li> <li>• Zinc</li> </ul>

\* Cassette 941 (MCEF 0.8 µm, 37 mm, PPI Impactor) is used for sampling in the worker's respirable zone: an extra charge of **\$55** is applied for the PPI Impactor when ordering this sampling material.

## PACKAGES (cont.)

<b>13 metals by ICP-MS</b> <b>Disposable multi-fraction sampler, (DRS) 949</b>	<b>21 PAHs (particulates) by GC-MS</b> <b>Cassette 911</b>	<b>21 PAHs (vapour) by GC-MS</b> <b>Tube 2187</b>	<b>11 aldehydes by GC-MS</b> <b>Tube 2186</b>
<b>\$390</b>	<b>\$225</b>	<b>\$225</b>	<b>\$380</b>
<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Barium</li> <li>• Cadmium</li> <li>• Chromium</li> <li>• Cobalt</li> <li>• Copper</li> <li>• Iron</li> <li>• Magnesium</li> <li>• Manganese</li> <li>• Nickel</li> <li>• Lead</li> <li>• Vanadium</li> <li>• Zinc</li> </ul>	<ul style="list-style-type: none"> <li>• 1-Methylnaphtalene</li> <li>• 1,3-Dimethylnaphtalene</li> <li>• 2-Methylnaphtalene</li> <li>• 2,3,5-Trimethylnaphtalene</li> <li>• Acenaphthene</li> <li>• Acenaphthylene</li> <li>• Anthracene</li> <li>• Benz(a)anthracene</li> <li>• Benzo(b+j+k)fluoranthene</li> <li>• Benzo(a)pyrene</li> <li>• Benzo(e)pyrene</li> <li>• Benzo(c)phenanthrene</li> <li>• Benzo(g,h,i)perylene</li> <li>• Chrysene</li> <li>• Dibenz(a,h)anthracene</li> <li>• Fluorene</li> <li>• Fluoranthene</li> <li>• Indeno(1,2,3-cd)pyrene</li> <li>• Naphtalene</li> <li>• Phenanthrene</li> <li>• Pyrene</li> </ul>	<ul style="list-style-type: none"> <li>• Methylnaphtalene</li> <li>• 1,3-Dimethylnaphtalene</li> <li>• 2-Methylnaphtalene</li> <li>• 2,3,5-Trimethylnaphtalene</li> <li>• Acenaphthene</li> <li>• Acenaphthylene</li> <li>• Anthracene</li> <li>• Benz(a)anthracene</li> <li>• Benzo(b+j+k)fluoranthene</li> <li>• Benzo(a)pyrene</li> <li>• Benzo(e)pyrene</li> <li>• Benzo(c)phenanthrene</li> <li>• Benzo(g,h,i)perylene</li> <li>• Chrysene</li> <li>• Dibenz(a,h)anthracene</li> <li>• Fluorene</li> <li>• Fluoranthene</li> <li>• Indeno(1,2,3-cd)pyrene</li> <li>• Naphtalene</li> <li>• Phenanthrene</li> <li>• Pyrene</li> </ul>	<ul style="list-style-type: none"> <li>• Acetaldehyde</li> <li>• Acroleine</li> <li>• Butyraldehyde</li> <li>• Furfural</li> <li>• Formaldehyde</li> <li>• Heptanal</li> <li>• Hexanal</li> <li>• Isobutyraldehyde</li> <li>• Isovaleraldehyde</li> <li>• Propionaldehyde</li> <li>• Valeraldehyde</li> </ul>

## PACKAGES (cont.)

Quantitative composition of 37 solvents by GC-MS on tube 2120	
\$670	
• n- Amyl acetate	• Methylcyclohexane
• Acetone	• Methylene chloride
• Benzene	• n-Butyl acetate
• Chloroform	• n-Butyl alcohol
• Cumene	• n-Heptane
• Cyclohexane	• n-Hexane
• Diethyl ether	• Nonane
• Ethyl acetate	• n-Pentane
• Ethyl alcohol	• n-Propyl acetate
• Ethylbenzene	• Octane
• Isobutyl acetate	• Perchloroethylene
• Isobutyl alcohol	• sec-Butyl acetate
• Isopropyl acetate	• Styrene
• Isopropyl alcohol	• Tetrahydrofuran
• Methyl acetate	• Toluene
• Methyl ethyl ketone	• Trichloroethylene
• Methyl isobutyl ketone	• Trimethylbenzenes
• Methyl n-amyl ketone	• Xylenes
• Methyl propyl ketone	

## PACKAGES (cont.)

<b>Compressed Breathing air</b>
<b>\$800</b>
The portable device for sampling and analyzing compressed breathing air was designed by IRSST in reference to the standard CAN/CSA-Z180.1-00. This device allows the determination of the quality of the breathing air and compressed breathing air generated by systems such as supplied-air respirators, supplied-air suits, self-contained breathing apparatus (SCBA) (open-circuit) and other systems, as long as they generate a pressure equal or above 10 lbs/in <sup>2</sup> (10 psi).

<b>Isocyanates monomer et oligomers Cassette 981 and Impinger 1415 2 results : total monomer and oligomers</b>
<b>\$275 for the first isocyanate and \$80 each for the others</b>
• 2,4-TDI
• 2,6-TDI
• HDI
• IPDI
• MDI

<b>Isocyanates monomer <u>only</u> cassette 917 3 results :vapor monomer , aerosol monomer and total monomer</b>
<b>\$250 for the first isocyanate and \$80 each for the others</b>
• 2,4-TDI
• 2,6-TDI
• HDI
• HMDI
• IPDI
• MDI

<b>Isocyanates monomer et oligomers cassette 917 4 results : vapor monomer, aerosol monomer, total monomer and oligomers</b>
<b>\$275 for the first isocyanate and \$80 each for the others</b>
• 2,4-TDI
• 2,6-TDI
• HDI
• HMDI
• IPDI
• MDI

## PACKAGES (cont.)

<b>8 Nitrosamines by GC-NPD tube 2210</b>	<b>7 amines by LC-MS Cassette 955</b>	<b>Chromium VI Cassette 976 (Quartz filter)</b>	<b>Inorganic Acids - volatiles Cassette 974 (2 Impregnated Quartz Filters)</b>
<b>\$370</b>	<b>\$450</b>	<b>\$ 198</b>	<b>\$ 300</b>
<ul style="list-style-type: none"> <li>• N-Nitrosodibutylamine</li> <li>• N-Nitrosodiethylamine</li> <li>• N-Nitrosodimethylamine</li> <li>• N-Nitrosodipropylamine</li> <li>• N-Nitrosomethylethylamine</li> <li>• N-Nitrosomorpholine</li> <li>• N-Nitrosopiperidine</li> <li>• N-Nitrosopyrrolidine</li> </ul>	<ul style="list-style-type: none"> <li>• 2-Aminoethanol</li> <li>• Aniline</li> <li>• Dimethylamine</li> <li>• Isopropylamine</li> <li>• Methylamine</li> <li>• Morpholine</li> </ul>	<ul style="list-style-type: none"> <li>• Chromium VI, water insoluble</li> <li>• Chromium VI, water soluble</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrobromic acid</li> <li>• Hydrochloric acid</li> <li>• Nitric Acid</li> </ul>

## LIST OF WIPE SAMPLE KITS AVAILABLE TO ORDER

IRSST Inventory #	Description of the kit	Cost per kit
<b>2625</b>	Surface sample kit (25 wipes) – Chromium VI	\$65
<b>3020</b>	Surface sample kit (5 wipes) – Cyanides	\$65
<b>3050</b>	Surface sample kit (25 wipes) – Aliphatics Isocyanates (HDI)	\$85
<b>3060</b>	Surface sample kit (25 wipes) – Aromatics Isocyanates (MDI et TDI)	\$85

## INSTRUMENT CALIBRATION COSTS

For Acoustics, Electromagnetism and Flow meters, if a deviation from the manufacturer’s method is required, authorization from the client is required before proceeding to the calibration of the instrument.

### Acoustics (1/4)

<b>Sound calibrator</b>		
<ul style="list-style-type: none"> <li>Calibration of sound level, frequency and percentage of total distortion of the acoustic signal according to the working instruction I-ACO-005</li> </ul>		
One sound pressure level and one frequency	114dB at 250hz	<b>\$325</b>
	94 dB at 1000hz	<b>\$325</b>
	114 dB at 1000hz	<b>\$325</b>
Two sound pressure levels and one frequency (only on specific models)	94 dB and 114 dB at 1000 Hz	<b>\$455</b>
<p>To be calibrated, the sound calibrator must allow the calibration of 1 inch or ½ inch diameter microphones.</p> <p>For sound calibrators consisting of more than one level, each one constitutes a calibration. If the level is not specified, two levels will be calibrated.</p>		
<b>Main models :</b>	<ul style="list-style-type: none"> <li>- Brüel &amp; Kjær : 4230 and 4231</li> <li>- Larson Davis : CAL150, CAL200 and CAL250</li> <li>- Quest : QC-10</li> </ul> <p>Please note that all specified acoustic calibrator models must comply with IEC 60942:2003, IEC 60942:1997, or IEC 942:1988 standards</p> <p><b>For a sound calibrator model that is not included in this list, please contact Customer Service <a href="mailto:sac.labo@irsst.qc.ca">sac.labo@irsst.qc.ca</a> to obtain confirmation regarding its possible calibration by the Acoustical Laboratory.</b></p>	

## Acoustics (2/4)

### Noise dosimeter or Sound level meter, integrating-averaging sound level meter, sound-level meter – frequency analyzer and microphone alone

*Free field acoustical calibration of the frequency weighting of the instrument compared to the tolerances of standard IEC 61672-1: 2002 “Electroacoustics – Sound level meters – Part 1: Specifications.” (note: according to the standard, the sound level meter is set to frequency weighting C, if available, otherwise to frequency weighting A)*

*Acoustical calibration of the frequency weighting is done according to standard IEC 61672-2: 2006, “Electroacoustics - Sound level meters – Part 3: – Periodic tests” (section 11).*

Acoustical calibration of noise dosimeter

**\$520**

Acoustical calibration of sound level meter

- *Verifies the instantaneous response of a noise measuring instrument for 39 sound levels and frequencies between 125 Hz and 20 000 Hz*
- *Identifies a problem with the microphone, or minimally, with the Rms value (Fast or Slow) measuring circuit or with the frequency weighting circuit used.*
- *Inappropriate if there is a need for demonstrating, beyond reasonable doubt, the compliance of the measuring instrument with instrument standard IEC 61672-1: 2002. In legal metrology, this demonstration is now commonly required (e.g., calls for tender for measuring the noise generated by wind turbines, etc.).*

**\$520**

#### Main models :

- Larson Davis : Spark 706, 706 RC, LxT1, 831, Spartan 730, Spartan 821
- Brüel & Kjær : 2250, 2270, 2225, 2240 and 2245

**For a dosimeter or Sound level meter model that is not included in this list, please contact Customer Service [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca) to obtain confirmation regarding its possible calibration by the Acoustical Laboratory.**

## Acoustics (3/4)

### Sound level meter, integrating-averaging sound level meter, sound level meter - frequency analyzer

*Acoustical and electrical calibration of the instrument in conformance to standard IEC 61672-1: 2002, "Electroacoustics – Sound level meters – Part 1: Specifications"*

*Acoustical and electrical calibration of the instrument according to standard CEI 61672-3 : 2006, « Électroacoustique – Sonomètres – Part 3 : Periodic Tests »*

**One (1) measuring range:** *available only for noise measuring instruments reported by the manufacturer as complying with standard IEC 61672-1: 2002, "Electroacoustics - Sound level meters – Part 1: Specifications."*

- *Includes acoustical calibration as well as all the electrical tests periodically recommended by IEC 61672-3: 2006 for a noise measuring instrument.*
- *Required in legal metrology, because the Calibration Laboratory can, following this calibration, issue a declaration on the compliance of the noise measuring instrument with the complete requirements of IEC 61672-1: 2002.*
- *The electrical tests stipulated by IEC 61672-3: 2006 allow minimum verifications of the following characteristics of a noise measuring instrument: time and frequency weightings, linear operating range, self-generated electrical and acoustical noise, precision of the peak detector, precision of the exposure level calculations, response of the noise measuring instrument to signals of different polarities, initiation level for the overload detection circuit.*

**\$845**

#### Main models :

- Brüel et Kjær : 2240 and 2250
- Larson Davis : 831 and LXT1

**For a model of sound level meter that is not included in this list, please contact Customer Service [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca) to obtain confirmation regarding its possible calibration by the Acoustical Laboratory.**

## Acoustics (4/4)

### Integrating sound level meter Brüel and Kjær 2240 only

*Acoustical and electrical calibration on measuring ranges 60-140 dB, and 30-110 dB, respectively, in conformance to standard IEC 61672-1: 2002, "Electroacoustics – Sound level meters – Part 1: Specifications"*

*Acoustical and electrical calibration of the instrument according to standard CEI 61672-3 : 2006, « Électroacoustique – Sonomètres – Part 3 : Periodic Tests »*

**Two (2) measuring ranges:** *available only for noise measuring instruments reported by the manufacturer as complying with standard IEC 61672-1: 2002, "Electroacoustics - Sound level meters – Part 1: Specifications."*

**\$990**

## Lighting

### Luxmeter

5-point linearity calibration

**\$325**

#### Models :

- Cal-Light 400
- Haghner E2 and EC-1
- Topcon IM-2D
- Hioki FT3424

**For a model that is not included in this list, please contact Customer Service [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca) to obtain confirmation regarding its possible calibration by the Acoustical Laboratory.**

## Chemical measurements – Direct Reading Instruments

### CO<sub>2</sub> detector

**Model: GasAlertMicro5 IR from BW**

Calibration of CO<sub>2</sub> analyzer- 3 points calibration according to the measurement scale

**\$260**

### Mercury detector

**Model: Jerome 405**

Calibration without correction with suspension of mercury vapours at room temperature

**\$260**

### Personal detector for CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub> and H<sub>2</sub>S

**Models: PAC 7000, PAC 6500 and PAC 8000**

Calibration of personal detector- 3-points calibration according to the measurement scale

**\$260**

### 4-Gas detector (explosivity, oxygen, CO, H<sub>2</sub>S)

**Models: X-am 2000, X-am 2500, X-am 5000 and X-am 8000 from Dräger**

Calibration of 4-Gas detector – 2 points calibration of the oxygen sensor, 3 points for the other sensors

**\$260**

## Chemical measurements – Direct Reading Instruments (cont.)

### Photoionizer

**Models MultiRAE Plus, MiniRAE 3000 and ToxiRAE PROPID**

Calibration of photionizer – 2 points calibration with reference to isobutylene

**\$260**

### Indoor air quality analyzer

**Models: Fluke 975**

Calibration of CO and CO<sub>2</sub> sensors – 3 points calibration

**\$260**

Calibration of temperature sensors – 3 points calibration

**\$195**

Calibration of relative humidity sensors - 2 points calibration

**\$195**

### Ozone detector

**Models POM and GazAlert extreme**

Calibration with an ozone generator – 3 points calibration

**\$455**

### Nitrous oxide detector (N<sub>2</sub>O) detector

**Models G200**

Calibration of personal detector- 3-points calibration according to the measurement scale

**\$260**

**Formaldehyde (CH<sub>2</sub>O) detector****Model Formaldemeter htv-m**

Calibration of personal detector- 3-points calibration according to the measurement scale. Measurements taken at room temperature.

**\$260**

## Thermohygrometry

### WBGT heat stress monitor with datalogger module

WBGT 3-point Temperature calibration of WBGT

**\$325**

**Models :**

- RSS-214 DL
- RSS-217

### WBGT heat stress monitor with datalogger module

Package – WBGT–Temperature calibration at 3-points and Relative Humidity calibration at 2 points

**\$455**

**Model :**

QuesTemp 34

### WBGT heat stress monitor without datalogger module

WBGT 3-point Temperature calibration

**\$455**

**Model :**

- RSS-214
- QuesTemp 30
- QuesTemp 32

### Thermohygrometry (cont.)

**Dry bulb temperature and relative humidity digital measuring instrument without datalogger module**

Package - Thermohygrometer 3-point Temperature and point Relative Humidity calibration

**\$455**

**Models :**

- Vaisala HM 34
- Vaisala HM 40
- Vaisala HM 41

**IR Infrared digital thermometer (without contact) without datalogger module**

*All makes*

Thermometer 4-point calibration between 35 and 500°C

**\$195**

## Ventilation

### Anemometer

**Models: TSI 8384A and 9535**

15-point calibration

**\$260**

### Flow meters

*Calibration following the Simple acceptance decision rule based on ILAC G8 (2019). The acceptance limit is the same as the manufacturer's tolerance limit, so it does not take uncertainty into consideration.*

5-pt calibration for low flow- flow meters\*

**\$455**

5-pt calibration for high flow- flow meters

**\$455**

5-pt calibration for very high flow - flow meters\*

**\$455**

#### Models :

- Bios Defender
- DC Lite
- Gilibrator-2\*

\*not covered by IRSST's scope of accreditation

## Pumps

<b>High flow pump</b>	
<b>Models: Gilian Gil Air, Gilian Gil-Air 5, Gilian GilAir Plus, Gilian 5000, SKC PCXR and Aircheck Touch</b>	
Verification and adjustment	<b>\$260</b>
<b>Low flow pump</b>	
<b>Models: Gilian LFS-113 and SKC Pocket Touch</b>	
Verification and adjustment	<b>\$260</b>
<b>Very High flow pump</b>	
<b>Models: Leland Legacy et Quick take</b>	
Verification and adjustment	<b>\$260</b>
<b>Charger</b>	
Verification	<b>\$130</b>
<b>5-Station charger</b>	
Verification	<b>\$130</b>
<b>Manual pump</b>	
<b>Makes: Draeger and Gastec</b>	
Verification and adjustment	<b>\$130</b>

## INSTRUMENT RENTAL - COSTS

<b>Acoustics</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Sound level calibrator (94 and 114 dB)	BK 4231	<b>\$130</b>	<b>\$160</b>	<b>\$320</b>
Noise dosimeter	Spartan 730, Spartan 730is	<b>\$200</b>	<b>\$350</b>	<b>\$700</b>
Integrating sound level meter	BK 2240	<b>\$210</b>	<b>\$360</b>	<b>\$720</b>
Integrating sound level meter	Spartan 821IH-QPR	<b>not available</b>	<b>\$650</b>	<b>\$1300</b>

<b>Physics measurement</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Thermohygrometer	HM34C, HM40	<b>\$205</b>	<b>\$260</b>	<b>\$520</b>
Luxmeter	CAL-LIGHT400, FT3424	<b>\$130</b>	<b>\$280</b>	<b>\$560</b>
Weather Station	S81120	<b>\$205</b>	<b>\$260</b>	<b>\$520</b>

<b>Vibration</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Vibration Meter	HVM200-complet	<b>not available</b>	<b>\$500</b>	<b>\$1000</b>

## INSTRUMENT RENTAL – COSTS (cont.)

<b>Gas analyzers</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
4-gas detector explosivity meter	X-am 8000	<b>\$340</b>	<b>\$850</b>	<b>\$1700</b>
CO <sub>2</sub> detector	X-AM-5600 CO2	<b>\$340</b>	<b>\$850</b>	<b>\$1700</b>
CO-LC personal detector	PAC 7000 CO-LC	<b>\$190</b>	<b>\$475</b>	<b>\$950</b>
DRI – Indoor air quality	Fluke 975, Q-Track XP7585, TSI7545	<b>\$340</b>	<b>\$850</b>	<b>\$1700</b>
Formaldehyde detector	Formaldemeter htv-m	<b>\$160</b>	<b>\$320</b>	<b>\$640</b>
Mercury analyzer	Jerome 405	<b>\$320</b>	<b>\$640</b>	<b>\$1280</b>
NO personal detector	PAC 8000 NO	<b>\$190</b>	<b>\$475</b>	<b>\$950</b>
NO <sub>2</sub> personal detector	PAC 7000 NO2, PAC 8000 NO2	<b>\$160</b>	<b>\$320</b>	<b>\$640</b>
Ozone personal detector	W Solo	<b>\$200</b>	<b>\$500</b>	<b>\$1000</b>
Personal photoionization detector	ToxiRae PRO PID	<b>\$200</b>	<b>\$500</b>	<b>\$1000</b>
SO <sub>2</sub> personal detector	Micro IV	<b>\$190</b>	<b>\$475</b>	<b>\$950</b>

**INSTRUMENT RENTAL – COSTS (cont.)**

<b>Pumps and flow meters</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
5-station charger	Various models	Included in a pumps rental	Included in a pumps rental	Included in a pumps rental
Charger	Various models	Included in pumps rental	Included in pumps rental	Included in a pump rental
Flow meter	Defender high flow, Defender low flow	<b>\$180</b>	<b>\$300</b>	<b>\$600</b>
High flow pump	PCXR, Gil Air, Gil Air5, Gil Air plus, 220-4000 (Airchek connect)	<b>\$180</b>	<b>\$300</b>	<b>\$600</b>
High flow pump	220-5000TC Airchek Touch 220-3000 (Airchek Essentiel)	<b>\$180</b>	<b>\$300</b>	<b>\$600</b>
Impactor	Andersen N6, 1 stage	<b>\$310</b>	<b>\$775</b>	<b>\$1550</b>
Low flow pump	LFS 113	<b>\$180</b>	<b>\$450</b>	<b>\$900</b>
Low flow pump	220-1000TC (Pocket touch)	<b>\$180</b>	<b>\$450</b>	<b>\$900</b>
Very high flow pump (for spores)	Leland Legacy	<b>\$240</b>	<b>\$600</b>	<b>\$1200</b>
Very high flow pump (30 L/min)	Aircon 2	<b>\$240</b>	<b>\$600</b>	<b>\$1200</b>

**INSTRUMENT RENTAL – COSTS (cont.)**

<b>Air quality</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
DRI – for aerosols	Dust Trak II 8530	<b>\$300</b>	<b>\$750</b>	<b>\$1800</b>
Endoscope	Micro CA-350	<b>\$150</b>	<b>\$375</b>	<b>\$750</b>
Manometer	Fluke 922	<b>\$150</b>	<b>\$375</b>	<b>\$750</b>
Moisture meter	Surveymaster SM	<b>\$150</b>	<b>\$375</b>	<b>\$750</b>
Smoke generator	Smoke generator	<b>\$150</b>	<b>\$375</b>	<b>\$750</b>
Thermo anemometer with QAI probe	TSI 9600+ CO/CO2	<b>\$300</b>	<b>\$750</b>	<b>\$1800</b>

### INSTRUMENT RENTAL – COSTS (cont.)

<b>Electromagnetism</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Static Triaxial Fieldmeter <sup>(B)</sup>	SMP3 Wavecontrol	<b>not available</b>	<b>\$475</b>	<b>\$950</b>
Laser Distance Meter	Leica Disto A5	<b>\$150</b>	<b>\$375</b>	<b>\$750</b>

<sup>(B)</sup> Magnetic Density (Tesla)

<b>Ionizing radiation</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Radiometer alpha, rayon X, beta and gamma	Radeye B20-ER	<b>\$180</b>	<b>\$450</b>	<b>\$900</b>
Radiometer (radon)	Corentium Pro	<b>Not available</b>	<b>\$620</b>	<b>\$1240</b>

### INSTRUMENT RENTAL – COSTS (cont.)

<b>Compressed Breathing air</b>				
Description		Preparation costs	Rental 5 business days	Rental 1 calendar month
Compressed Breathing Air case	Costs of analysis not included	<b>\$500</b>	<b>n/a</b>	<b>n/a</b>

<b>Cyclones</b>				
Description/Type	Model	Rental 1 day	Rental 5 business days	Rental 1 calendar month
Cyclone	GK2.69	<b>\$50</b>	<b>\$150</b>	<b>\$300</b>
Cyclone	GS-3	<b>\$50</b>	<b>\$150</b>	<b>\$300</b>
Cyclone, nylon	York- Dorr Oliver	<b>\$50</b>	<b>\$150</b>	<b>\$300</b>
Jar for cyclone calibration	2 liters jar / IP7013376	<b>\$50</b>	<b>\$150</b>	<b>\$300</b>

## CONTACT RESOURCES

**Bruno Ponsard, M. Sc., Chemist**

Director,  
Laboratory Division, IRSST

[bruno.ponsard@irsst.qc.ca](mailto:bruno.ponsard@irsst.qc.ca)

<b>Mickael Calosso, M.Sc., Chemist, CIH</b> (Certified Industrial Hygienist)	<b>Alberto Morales, M.Sc., CIH</b> (Certified Industrial Hygienist)
Deputy Director – Operations / Chemistry, Laboratory Division, IRSST	Deputy Director - Operations / Instrumentation and Microbiology, Laboratory Division, IRSST
<a href="mailto:Mickael.calosso@irsst.qc.ca">Mickael.calosso@irsst.qc.ca</a>	<a href="mailto:Alberto.morales@irsst.qc.ca">Alberto.morales@irsst.qc.ca</a>

For all requests related to instruments, sampling equipment and billing, please contact Laboratory Customer Service at (514) 288 1551, ext. **306** or by e-mail: [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca)

For all technical information regarding analyses, please contact Laboratory Customer Service at (514) 288-1551, ext. **315** or by e-mail: [sac.labo@irsst.qc.ca](mailto:sac.labo@irsst.qc.ca)