The Hong Kong University of Science & Technology
Health, Safety and Environment Office
Laboratory

Industrial Hygiene / IAQ Analysis (Air Samples)

Test Catalogue & Fee Schedule (USD)

March 2025

Clear Water Bay,
Kowloon, Hong Kong

Website: https://hseo.ust.hk/hseo-lab

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QUALIFICATIONS AND ACCREDITATIONS

Health, Safety and Environment Office (HSEO) Laboratory operates according to the guidelines set out in ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories". It has received accreditation from the American Industrial Hygiene Association (AIHA) since 1996 and from the Hong Kong Laboratory Accreditation Scheme (HOKLAS) since 1999. Our laboratory employs a comprehensive quality control program covering both sample preparation and analysis.

Major instrumentation and techniques include:

- AIHA Accreditation (LAP-102243)

  - Chromatography Core

    Gas Chromatography (GC/FID)

    High Performance Liquid Chromatography (HPLC/UV)

    Ion Chromatography (IC)

  - Spectrometry Core

    Inductively Coupled Plasma Optical Emission Spectroscopy (ICP/OES)

    Inductively Coupled Plasma Mass Spectroscopy (ICP/MS)

  - Miscellaneous Core

    Gravimetric

- HOKLAS Accreditation (HOKLAS094)

  - Microbiological Analysis

TERMS & CONDITIONS

(Refer to HSEO Lab website)

https://hseo.hkust.edu.hk/hseo-lab/service

INDUSTRIAL HYGIENE ANALYSES

METALS BY ICP

MCE / PVC FILTERS:

Method Code	Method Reference	Instrumentation	Detection Limit
PAM001	NIOSH 7301, 7303	ICP/OES	mg/sample
PAM026	NIOSH 7300	ICP/MS	µg/sample

Analyte List:						Fee (USD)
Aluminum, Al	Antimony, Sb[#]	Arsenic, As[#]	Barium, Ba	Beryllium, Be	Boron, B	45 / 20 *
Cadmium, Cd	Chromium, Cr	Cobalt, Co	Copper, Cu	Indium, In	Iron, Fe	
Lead, Pb	Manganese, Mn	Nickel, Ni	Mercury, Hg[#]	Selenium, Se[#]	Silver, Ag	
Titanium, Ti	Vanadium, V	Zinc, Zn				

[#] Analyzed by ICP/MS only.

Special discount: USD 1,250 for any 8 analytes from above list per sample

Metal	Method Code	Method Reference	Instrumentation	Sampling Medium	Fee (USD)
Lead in Paint	PAM004^	ASTM E1645-94	ICP/OES	-	58
Lead in Wipe	PAM018^	HUD-1539-LBP / NIOSH 9100	ICP/OES	Baby wipe paper	58

PARTICULATE (NUISANCE DUST / OIL MIST)

Analyte	Method Code	Method Reference	Instrumentation	Sampling Medium	Fee (USD)
Total Particulates	PAM017	NIOSH 0500	Gravimetric	SKC 225-8-01 (single filter) /	16
Respirable Particulates	PAM017	NIOSH 0600	Gravimetric	SKC 225-8202 (Matched-weight filter)	16
Inhalable / Respirable Particulates	PAM025	HSE MDHS 14/3	Gravimetric	SKC 225-70A, 25mm (IOM Sampler)	29

ANALYTES BY IC

Method Code	Method Reference	Instrumentation	Sampling Medium	Fee (USD)
PAM010	NIOSH 7903	IC	SKC 226-10-03	52 / 20 *

Analyte List:

Hydrobromic acid (HBr)	Hydrofluoric acid (HF)	Phosphoric acid (H_3PO_4)
Hydrochloric acid (HCl)	Nitric acid (HNO_3)	Sulfuric acid (H_2SO_4)

Special discount: USD 1,000 for complete analyte list per sample

Analyte	Method Code	Method Reference	Instrumentation	Sampling Medium	Fee (USD)
NaF as F	PAM021^	NIOSH 7906	IC	SKC 225-9001	52
NO_2	PAM024	OSHA ID-182	IC	Ogawa Passive Sampler	52
Ammonia	PAM030	NIOSH 6016	IC	SKC 226-10-06	52

* First analyte on a sample / additional analyte on same sample

ORGANIC SOLVENTS BY GC/FID

(For analyte not on the list, please contact us for details.)

Method Code	Method Reference	Instrumentation	Sampling Medium	Fee (USD)
PAM002	OSHA / NIOSH methods	GC/FID	Sorbent tube	52 / 20 *
PAM015	OSHA / NIOSH methods	GC/FID	Assay Technology 566 OVM	52 / 20 *

Analyte List:	Method Reference	Sorbent tube	Passive sampler (AT566 OVM)
Acetic acid	NIOSH 1603	Anasorb CSC, SKC 226-01	-
Acetone	NIOSH 1300	Anasorb CSC, SKC 226-01	✓
Acetonitrile	NIOSH 1606	Anasorb CSC, SKC 226-09	✓
1-Butanol	NIOSH 1401	Anasorb CSC, SKC 226-01	✓
n-Butyl Acetate	NIOSH 1450	Anasorb CSC, SKC 226-01	✓
Butyl Acrylate	OSHA PV2011	Anasorb CSC, SKC 226-01	✓
Carbon disulfide	NIOSH 1600	Anasorb CSC, SKC 226-01	-
Carbon Tetrachloride	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Chlorobenzene	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Chloroform	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Cyclohexane	NIOSH 1500	Anasorb CSC, SKC 226-01	✓
1,2-Dichloroethane (Ethylene dichloride)	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Dichloromethane (Methylene chloride)	NIOSH 1005	Anasorb CSC, SKC 226-01	✓
Diethyl ether (Ethyl ether)	NIOSH 1610	Anasorb CSC, SKC 226-01	✓
Ethanol (Ethyl alcohol)	NIOSH 1400	Anasorb CSC, SKC 226-01	✓
Ethyl Acetate	NIOSH 1457	Anasorb CSC, SKC 226-01	✓
Ethyl Benzene	NIOSH 1501	Anasorb CSC, SKC 226-01	✓
Ethyl Lactate	OSHA PV2081	Anasorb CSC, SKC 226-01	✓
n-Heptane	NIOSH 1500	Anasorb CSC, SKC 226-01	✓
n-Hexane	NIOSH 1500	Anasorb CSC, SKC 226-01	✓
Isoflurane	OSHA 103	Anasorb 747, SKC 226-81A	✓
Methanol	NIOSH 2000	Silica gel, SKC 226-51	✓
Methyl Ethyl Ketone (MEK)	NIOSH 2500	Anasorb CMS, SKC 226-121	✓
Methyl Isobutyl Ketone (MIBK)	NIOSH 1300	Anasorb CSC, SKC 226-01	✓
Methyl Methacrylate	NIOSH 2537	XAD-2, SKC 226-30-06	✓
Methyl tert-Butyl Ether (MTBE)	NIOSH 1615	Anasorb CSC, SKC 226-37	✓
1-Methyl-2-Pyrrolidinone (NMP)	NIOSH 1302	Anasorb CSC, SKC 226-01	✓
Phenol	NIOSH 2546	XAD-7, SKC 226-95	✓
Phenyl Ether	NIOSH 1617	Anasorb CSC, SKC 226-01	✓
2-Propanol (Isopropanol)	NIOSH 1400	Anasorb CSC, SKC 226-01	✓
Propylene glycol methyl ether	NIOSH 2554	Anasorb 747, SKC 226-81A	✓
Pyridine	NIOSH 1613	Anasorb CSC, SKC 226-01	✓
Styrene	NIOSH 1501	Anasorb CSC, SKC 226-01	✓
Tetrahydrofuran	NIOSH 1609	Anasorb CSC, SKC 226-01	✓
Tetrachloroethylene (Perchloroethylene)	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Toluene	NIOSH 1501	Anasorb CSC, SKC 226-01	✓
1,1,1-Trichloroethane	NIOSH 1003	Anasorb CSC, SKC 226-01	✓
Trichloroethylene	NIOSH 1022	Anasorb CSC, SKC 226-01	✓
Vinyl acetate	NIOSH 1453	Carbon molecular sieve, 160mg/80mg	✓

* First analyte on a sample / additional analyte on same sample

OTHER ORGANIC SOLVENTS BY GC/FID

Analyte	Method Reference	Sorbent tube	Passive sampler	Fee (USD)
Benzene	NIOSH 1501	Anasorb CSC, SKC 226-01	AT566 OVM	65
Xylenes	NIOSH 1501	Anasorb CSC, SKC 226-01	AT566 OVM	65
Formaldehyde	NIOSH 2541	XAD-2, SKC 226-118	-	65
Total Hydrocarbons (as Hexane)	NIOSH 1500	Anasorb CSC, SKC 226-01	AT566 OVM	65

ORGANIC SCAN BY GC/MSD

Analyte	Method Code	Sorbent tube	Sampling Medium	Fee (USD)
Low/High Boiling Fraction	PAM006^	Anasorb CSC, SKC 226-01	AT566 OVM	39 for each / 65 for both
Organic Scan	PAM032^	-	Thermal desorption tube	39

FORMALDEHYDE BY HPLC

Analyte	Method Code	Method Reference	Sampling Medium	Fee (USD)
Formaldehyde	PAM023	NIOSH 2016	SKC 500-100 OVM / SKC 226-119	65

MICROBIOLOGICAL ANALYSIS

Analyte	Method Code	Method Reference	Sampling Medium	Fee (USD)
Airborne Bacteria Count (uncorrected number of colonies on agar plate)	PAM027	AIH (1) 4/86, ACGIH, TSA, 30°C for 2 days	Tryptic Soy Agar	39
Airborne Molds & Yeasts (uncorrected number of colonies on agar plate)	PAM028	AIH (1) 4/86, ACGIH, MEA, 25°C for 5 days	Malt Extract Agar	39

SAMPLING MEDIA

SORBENT TUBES & FILTERS				
Cat. No.	Description	Treated	Sorbent (mg)	Unit Cost (USD)
225-3-01	SKC MCE filter, 37mm, 0.8µm, clear, 3 piece	No	-	3
225-8202	SKC PVC matched-weight filter, 37mm, 5µm , 3 piece	No	-	9
226-01	SKC Anasorb CSC, Coconut charcoal **	No	50 / 100	2
226-10-06	SKC Silica gel (Sulfuric Acid) **	Yes	100 / 200	7

ORGANIC VAPOR MONITORS			
Cat. No.	Description	Treated	Unit Cost (USD)
AT566	Assay Technology 566 Organic Vapor Monitor **	No	21
500-100	SKC UMEx 100 Organic vapor monitor for formaldehyde **	Yes	30
PS-134	Ogawa passive sampler filter for NO_2 **	Yes	9

Note: 1) Methods marked with ^ are outside the scope of accreditation of the laboratory.

2) ** Limited shelf-life

3) All media is subject to availability and may require a minimum order.

4) Prices are subject to change without notice.

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