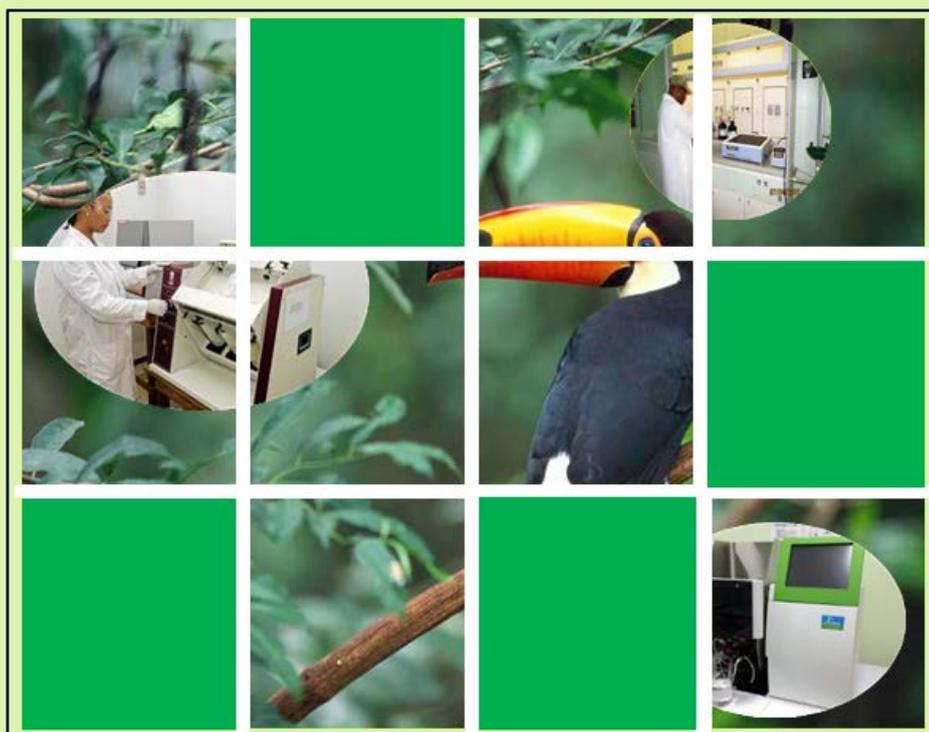


ENVIRONMENTAL DEPARTMENT – GENERAL PRICE LIST 2022



FILAB SURINAME
ISO 2001:2015 Certified – A lab operated by FILAB AMSUD SAS
Aboenawrokostraat #71 - PARAMARIBO - Suriname - South America
Tel: 00 (597) 455 857 & 455 979 - Fax: 00 (597) 455 926 - E-mail: info@filabsuriname.com - Web site: <http://www.filabsuriname.com>

INTRODUCTION

Samples sent to the laboratory are subjected to a contract review before being injected into the analytical circuit using a LIMS. A barcode identification system allows full traceability before, during and after analysis. Sample logging costs include sample management and implementation of Quality procedures according to ISO 9001 and ISO / IEC 17025 standards.

FILAB is certified ISO 9001 (2008) and participates to the GEOSTATS ROUND ROBIN SURVEY (twice a year). All prices listed in the present document are established on the basis of a minimum of 5 samples per batch and per analysis. Additional costs are applied for smaller batches and discounts applied for large batches. CONTACT US.

CODE	DESCRIPTION	USD
❖ SAMPLE LOGGING		
LOG1	Administration fees: per batch	50,00
❖ SAMPLE STORAGE AND DESTRUCTION		
	Storage after analysis <ul style="list-style-type: none"> ▪ Environmental samples are stored free of charge for 1 month (in the refrigerator in case of perishable materials) and then either returned at cost to client or eliminated for free. 	
❖ DISCOUNTS (personalized quotation and contract)		
➤ Large and / or repetitive batches: personalized quotation		
➤ Commitment for a minimum number of samples submitted per month or per year: contract .		



WATER ANALYSIS

The environmental department of FILAB SURINAME is in a position to carry out a large range of analysis of ground and surface waters, drinking waters as well as of industrial and waste waters. The laboratory can also analyze sea water samples. All analysis are done according to recognized international standards (ASTM – EPA – ISO) using last generation equipment. Filab provides also support for sampling and can supply bottles with adequate preservative agent and cool boxes for samples transportation.

ANALYTE	METHOD / TECHNIQUE	STANDARD	USD
pH	Potentiometry (pHmeter)	ASTM D5464	5.75
Conductivity	Potentiometry (Conductivimeter)	ASTM D1125A	5.75
Alkalinity / Acidity	Titration	ASTM D5464A	17.50
Hardness	Colorimetry	ASTM D1126	17.50
TSS (Total Suspended Solid / Non Filterable matter)	Gravimetry	ASTM D5907	27.50
TDS (Total Dissolved Solid / Filterable matter)	Gravimetry	ASTM D5907	27.50
Turbidity	Turbidimeter	EPA-NERL 180.1	17.50
COD (Chemical Oxygen Demand)	Colorimetry finish	ASTM D1252B	35.00
BOD ₅ (Biological Oxygen Demand -5 days)	Manometric method (Respirometry)	ASTM D1252D	45.00
Oil and Grease (OG)	FTIR finish	ASTM D066-04	80.00
Total Hydrocarbon (HCT)	FTIR finish	ASTM D066-04	80.00
Total Nitrogen	Mineralization + Steam distillation	EPA 351-3 modif.	75.00
Total Kjeldahl Nitrogen (TKN)	Mineralization + Steam distillation	EPA 351-3	75.00
Ammonium (NH ₄)	Colorimetry	EPA 350-1	17.50
Nitrate (NO ₃)	Suppressed Ion Chromatography	ASTM D4327	22.00
Nitrate (NO ₂)	Suppressed Ion Chromatography	ASTM D4327	22.00
Sulphate (SO ₄)	Suppressed Ion Chromatography	ASTM D4327	22.00
Phosphate (PO ₄)	Suppressed Ion Chromatography	ASTM D4327	22.00
Chloride (Cl ⁻)	Suppressed Ion Chromatography	ASTM D4327	22.00
Fluoride (F ⁻)	Suppressed Ion Chromatography	ASTM D4327	22.00
Bromide (Br ⁻)	Suppressed Ion Chromatography	ASTM D4327	22.00
Package 7 anions: Cl, F, Br, NO ₃ , NO ₂ , SO ₄ , PO ₄	Suppressed Ion Chromatography	ASTM D4327	125.00
Total Cyanide (CN _{TOT})	Distillation /Ion Chromato finish	ASTM D7511	67.50
Free Cyanide (CN _F)	Distillation /Ion Chromato finish	ASTM D7237	65.00
Weak Acid Dissociable Cyanide (CN _{WAD})	Distillation /Ion Chromato finish	ASTM D6888	67.50
Package cyanide Pack CN1 = CN _{TOT} + CN _F	Distillation /Ion Chromato finish	See above	105.00
Package cyanide Pack CN2 = CN _{TOT} + CN _F + CN _{WAD}	Distillation /Ion Chromato finish	See above	160.00



ANALYTE	METHOD / TECHNIQUE	STANDARD	USD
CATIONS / METALS Ag, Al, Au, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, Hg, In, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pr, Rb, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Tm, Te, Th, Ti, U, V, W, Y, Yb, Zn, Zr...			
Individual analysis <ul style="list-style-type: none"> First element Per subsequent element 			75.00 5.00
Multi-element analysis: elements selected by the client <ul style="list-style-type: none"> Package 10 elements Package 15 elements Package 30 elements Package 45 elements Per additional element to any package 	Combination of ICP-AES and ICP-MS to cover a large range of concentrations from ultra-traces elements at sub ppb level, to major element at g/l level	ASTM D1976 + ASTM D5673	119.00 138.00 197.00 256.00 4.00
Special sample preparation according to type of sample if necessary or on client request <ul style="list-style-type: none"> Filtration Mineralization 	Whatman filter Acid digestion (HNO ₃) / heating block		1.00 2.00
Mercury at ultra low level (DL: 0.005 ppb) <ul style="list-style-type: none"> Per sample 	AAS Cold vapor (FIMS 100)	EPA 245.1	40.00

ANALYTE	METHOD / TECHNIQUE	STANDARD	USD
ORGANIC COMPOUNDS Most of Organic compounds can be determined via our partner in France; the list below is not exhaustive. Please contact us for more details and for costs related to shipping and customs.			
BTEX (benzene, Toluene, Ethylbenzene, Xylene)	Head space / GC-MS	NF ISO 11423-1	85.00
PAH's (16 compounds)	GC-MS	NF ISO 28540	122.50
Aliphatic & Aromatic hydrocarbons C5 to C40	GC-MS	Internal	122.50
VOHC's (Volatile Organic Halogen Compounds)	GC-MS	Internal	155.00

WATER SAMPLING: RECOMMENDATION

ANALYTE	VOLUME & CONTAINER	PRESERVATIVE	STABILITY In the dark at +4°C
pH	100 ml Plastic HDPE	None	48h - In situ preferably
Acidity, Alkalinity, Conductivity	250 ml Plastic HDPE	None	48h - 1 week max
TSS - TSD	250 ml Plastic HDPE	None	48h - 1 week max
COD	250 ml Plastic HDPE	0.5 ml H ₂ SO ₄	1 week
BOD ₅	500 ml Plastic HDPE or Glass	None	24h - 72h max
Total nitrogen, Ammonium	500 ml Plastic HDPE or Glass	1 ml H ₂ SO ₄ Conc.	2 weeks
Cyanide	500 ml Plastic HDPE	1 ml NaOH 30%	2 weeks
Oil & Grease, Total hydrocarbon	500 ml Glass	1 ml H ₂ SO ₄ Conc.	2 weeks
BTEX, PAH's, VOHC's	500 ml Glass	None	48h - 1 week max
Pack anions Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	250 ml Plastic HDPE	None	48h - 1 week max
Anions / metals	250 ml Plastic HDPE	0.5 ml HNO ₃ Conc	Up to 3 months
Mercury only	250 ml Borosilicate Glass	0.5 ml HNO ₃ Conc	1 month



SOIL ANALYSIS

Most of parameters analyzed in water can also be analyzed in soil leachates.
Physical preparation depends on parameters analyzed: please contact us

ANALYTE	METHOD / TECHNIQUE	STANDARD	USD
PHYSICAL PREPARATION (For 1 kg sample)			
Drying at 105°C	Electric oven	Internal	5.50
Air drying (for mercury)	< 40°C	Internal	5.50
Elimination of extraneous materials, stones, gravels...	Manual	Internal	10.00
Size reduction at < 4 mm (for leaching test)	Crusher	Internal	12.50
Pulverization to 100 µm (for mineral pollutants)	Pulverizer	Internal	15.00
WATER LEACHING TEST			
100 g soil prepared + 900 ml de-ionized water	Rotary shaker	NF EN 1(2457-2 modified	50.00
▪ Leaching 24h			70.00
▪ Leaching 48h			85.00
▪ Leaching 72h			
Analysis of leachates (metals determination)	pHmeter		5.75
▪ pH			138.00
▪ Package ICP 15 elements	Combination ICP-AES / ICP-MS		197.00
▪ Package ICP 30 elements			256.00
▪ Package ICP 45 elements			
OTHER SOILS POLLUTANTS			
TOC (Total Organic Carbon)	Sulfochromic Oxidation	NF ISO 14235	80.00
Mercury	Mineralization + AAS cold vapor	Internal	50.00
Total cyanide	NaOH leach + Distill. + Ion Chromato	Internal	90.00
Oil and grease	Solvent extraction / FTIR finish	ASTM D066-04	90.00
Total hydrocarbons	Solvent extraction / FTIR finish	ASTM D066-04	90.00
BTEX (benzene, Toluene, Ethylbenzene, Xylene)	Head space / GC-MS	NF ISO 11423-1	100.00
PAH's (16 compounds)	GC-MS	XP X33-012	140.00
Aliphatic & Aromatic hydrocarbons C5 to C40	GC-MS	Internal	140.00
VOHC's (Volatile Organic Halogen Compounds)	GC-MS	Internal	170.00



INDUSTRIAL HYGIENE

FILAB SURINAME has developed a range of analytical services specially dedicated to industrial hygiene and health control. Analysis relevant to this sector permit de monitor the work environment and to protect the personnel exposed to industrial risks

ANALYTE	METHOD / TECHNIQUE	STANDARD	USD
AMBIANT & ATMOSPHERIC AIR ANALYSIS			
Air is drawn through filters for collecting dust. The filters can analyzed to determine the amount and the chemical nature of dust. The filtered air is collected in bubblers where pollutants are trapped to be identified and quantified. Contact us for the sampling conditions as well as for the nature of filters and bubbling solutions.			
Filter analysis			
<ul style="list-style-type: none"> ▪ Dust in mg / m³ ▪ Qualitative screening ▪ Quantitative analysis in mg / m³ <ul style="list-style-type: none"> ○ Per element 	Ultra-micro balance Multi-acid digestion + ICP-MS Multi-acid digestion + ICP-MS	Internal Internal	45.00 200.00 80.00
Bubbler solution analysis			
<ul style="list-style-type: none"> ▪ Anions (Cl, F, Br, NOx...) in mg / m³: per elt ▪ SO₂ in mg / m³ ▪ Cyanide in mg / m³ ▪ Other 	Suppressed ion chromatography Titration Distillation + Ion chromatography	Internal Internal Internal	50.00 55.00 80.00 Contact us
PHANERA ANALYSIS (Nails, Hair)			
Certainly, phanera and notably hair are easy to collect, store and carry. Hair has also the advantage to concentrate mineral elements that are present at a higher level than in usual reference biological materials such as blood or urine. It's why hair analysis is used by some hygienists to measure the impregnation level of an individual with heavy metals, and also by practitioners of alternative medicine, for assessing the nutritional status of their patients. But despite its commercial success, this process is still very controversial and results must be interpreted with caution.			
Hair sampling			
FILAB SURINAME can supply hair sampling kits : contact us			
Hair analysis			
<ul style="list-style-type: none"> ▪ Individual analysis (per element) <ul style="list-style-type: none"> ○ Heavy metals (including mercury) ▪ Multi-element analysis (per package) <ul style="list-style-type: none"> ○ Package 15 elements ○ Package 30 elements ○ Package 45 elements 	HNO ₃ / H ₂ O ₂ mineralization + ICP-MS	H.A.S.B. (Hair Analysis Standardization Board)	85.00 175.00 300.00 400.00



GENERAL TERMS & CONDITIONS

PRICES

Local taxes (when applicable) are not included if prices listed in this document.

Our prices include analysis of blanks and certified standards.

Discounts are granted for large batches, repetitive analysis and contracts (see page 2)

FILAB reserves the right to review its prices at any time without prior notice

PAYMENT

For regular clients, payment terms are 30 days from date of invoice. All other payment conditions are submitted to prior FILAB agreement

For punctual orders, payment at invoice receiving is required.

In some cases (new clients, special analysis...) an advance payment can be requested

Payment is done in US\$, by bank transfer.

All fees due and payable after the Due Date are subject to payment of interest at a rate of 1,5% per month, from the Due Date up to the payment date.

RESPONSIBILITY

Except if sampling is done by FILAB, the client is responsible for sampling and shipping of samples. FILAB is not responsible for loss, degradation or pollution of samples which might occur during shipping and before their arrival at the lab.

Analysis are performed by FILAB according to the good laboratory practices standards such as ISO 9001 and ISO/IEC 17025. If it is recognized that an error is attributable to the lab, the financial responsibility of FILAB is limited to the amount of analysis costs concerning results which are not complying with the quality required by the client.

To be considered, a complaint must be done by writing and sent to FILAB within 2 months after sending the analytical report.

SENDING OF ANALYTICAL REPORTS AND CONFIDENTIALITY

Reports are dispatched by e-mail. All other sending means requested by the client can be subject to a possible additional cost.

Standard turnaround time of the laboratory is typically 5 to 10 working days. On request and if technically possible, urgent process (TAT < 72 h) can be applied. In case of implementation of urgent process, additional cost can be charged

FILAB will use confidential information communicated by the client, only for the purpose of providing the service required.

All results are confidential and become the property of the client as soon as the relevant invoice has been paid.



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