

TYPE OF ANALYSIS: PHYSICAL CHEMICALS

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Soil</i>	<i>All included in the sample sets and determinations list</i>	2 or 3 kg (if it includes coarse fraction)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contamination with particles from the environment, with other types of samples and / or pollutants.	1 month Room temperature	ZE3
<i>Soil</i>	<i>All included in the sample sets and determinations list</i>	1 or 2 kg (if it does not include coarse fraction)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	1 month Room temperature	ZE3
<i>Sludge, sediments, solid waste and leaching materials</i>	<i>All included in the sample sets and determinations list</i>	1 or 2 kg	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	12 h from sampling until refrigeration, and a maximum period of 7 days to start the analysis.	Cooling temperature	Cooling temperature	Raw sample: 1 month at room temperature. Prepared: 1 month at room temperature. Others: Consult Technical Director	ZE3
<i>Solid chemicals and fertilizers</i>	<i>All included in the sample sets and determinations list</i>	100 or 200 g (preferably homogeneous)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	7 days	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	60 days Room temperature	ZE5 ZE4

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<i>Liquid chemicals and fertilizers</i>	<i>All included in the sample sets and determinations list</i>	100 or 200 ml (preferably homogeneous)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	60 days Room temperature	ZE6
<i>AUS32</i>	<i>All included in the sample sets and determinations list</i>	1 l	High density polyethylene	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	1 week Room temperature	ZE6
<i>Leaf and fresh plant material</i>	<i>All included in the sample sets and determinations list</i>	100 or 200 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	24 h from sampling until refrigeration, and a maximum period of 4 days to start the analysis.	Cooling temperature	Cooling temperature	Fresh: 1 week Dry: 1 month	Z E1 ZE(0)1
<i>Leaf and dry plant material</i>	<i>All included in the sample sets and determinations list</i>	10 or 20 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	1 month Room temperature	ZE1 ZE(0)1

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Food (metals)</i>	<i>All included in the sample sets and determinations list</i>	200 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	Products with low moisture content: 10 days. Canned products: 30 days. Fresh products: 5 days in refrigeration. Frozen: 30 days in freezing.	Room temperature: Products with low moisture content and canned food. Cooling temperature: fresh product. Freezing temperature: Frozen products.	Room temperature : Product with low moisture content. Cooling temperature: Fresh produce and canned food once opened. Congelation temperature: Freezing product	Products with low moisture content at room temperature : 1 month. Original sample from fresh products, opened canned food and defrosted products at cooling temperature At cooling temperature : 1 week. Homogenized food in freezing: 1 month.	ZE (0) 10 ZE (-0) 10
<i>Food (other parameters)</i>	<i>All included in the sample sets and determinations list</i>	500 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	Products with low moisture content: 10 days. Canned: 30 days. Fresh products: 5 days in refrigeration. Frozen: 30 days in freezing.	Room temperature: Products with low moisture content and canned food. Cooling temperature: fresh product. Freezing temperature: Frozen products.	Room temperature : Product with low moisture content. Cooling temperature: Fresh products and canned food once opened. Freezing temperature: Freezing product	Product with low moisture content at Room temperature : 1 month. Original sample from fresh products, opened canned food and defrosted products at cooling temperature: 1 week. Homogenized food in freezing: 1 month.	ZE (0) 10 ZE (-0) 10

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Oils and fats	1 l	All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Alkalinity (carbonates, bicarbonates, hydroxides)	10 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Dissolved Aluminum	20 ml	High density polyethylene Polyethylene phthalate	1 month	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Ammonium	300 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Arsenic	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	1 month	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Barium	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	1 month	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Boron	20 ml	High density polyethylene Polyethylene phthalate	1 month	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Bromide	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature and darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	Cadmium	20 ml	High density polyethylene Polyethylene phthalate Borosilicate glass	1 month	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Calcium	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Total organic carbon	25 ml	All kinds of glass	7 days	Cooling temperature	Cooling temperature Preparation of the sample to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Easily released cyanides	20 ml	All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Total cyanides	20 ml	All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Chlorophylls	5 l	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature and darkness	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Chlorides	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	1 month	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2
	Free residual chlorine	10 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediate determination <i>in situ</i> or cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Combined residual chlorine	10 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediate determination <i>in situ</i> or cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Color	10 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature And darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	Conductivity	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediate determination <i>in situ</i> or cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	BOD5	500 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature and darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	Detergents	20 ml	All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	<i>COD</i>	10 ml	High density polyethylene Polyethylene phthalate All kinds of glass	5 days	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃ , Cooling temperature and darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Phenols</i>	10 ml	Borosilicate glass	24 hours	Cooling temperature	Cooling temperature and darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Fluorides</i>	20 ml	High density polyethylene Polyethylene phthalate	1 month	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Dissolved phosphate</i>	20 ml	Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Filtrate <i>in situ</i> preferably and Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Total phosphorus</i>	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours or 1 month if sample preparation is carried out	Cooling temperature	Cooling temperature or sample preparation to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Phenol Index</i>	10 ml	Borosilicate glass	24 hours	Cooling temperature	Inhibition of biochemical oxidation or CuSO ₄ and acidification with H ₃ PO ₄ to pH <2	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Settling Matter</i>	1 l	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Total mercury	20 ml	Borosilicate glass	24 hours	Cooling temperature	Acidification to pH <2 with HNO ₃ and addition of K ₂ Cr ₂ O ₇ [final concentration of 0.05 % (m / m)]	1 month Cooling temperature	ZE (0) 2 ZE2
	Dissolved metals	100 ml	High density polyethylene Polyethylene phthalate	1 month	Cooling temperature	Filtrate <i>in situ</i> preferably and sample preparation to pH = 2 with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Total metals	100 ml	High density polyethylene Polyethylene phthalate	1 month	Cooling temperature	Sample preparation up to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Nitrates	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature or sample preparation to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	Nitrites	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	Kjeldahl Nitrogen	100 ml	High density polyethylene Polyethylene phthalate Borosilicate glass	24 hours	Cooling temperature	Sample preparation to pH = 2, with H ₂ SO ₄ or HNO ₃ and darkness	1 month Cooling temperature	ZE (0) 2 ZE2
	Odor	100 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	<i>Oxidability (Permanganate index)</i>	100 ml	All kinds of glass	24 hours	Cooling temperature	Cooling temperature and sample preparation to pH = 2, with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Dissolved oxygen</i>	---	High density polyethylene Polyethylene phthalate All kinds of glass	<i>In situ</i>	Cooling temperature	Immediate determination <i>in situ</i>	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>pH</i>	50 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediate determination <i>in situ</i> or cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Dry residue</i>	200 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Selenium</i>	20 ml	All kinds of glass	1 month	Cooling temperature	Acidification at pH <1, except if there are selenides. If they are present, alkalinize at pH <11 with NaOH or Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Total and dissolved silicates</i>	20 ml	High density polyethylene Polyethylene phthalate	24 hours	Cooling temperature	Cooling temperature and sample preparation to pH = 2 with H ₂ SO ₄ or HNO ₃	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Suspended solids</i>	1 l	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	<i>Volatile suspended solids</i>	1 l	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	---	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Sulfates</i>	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	7 days	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Sulphides</i>	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediately fix the samples <i>in situ</i> , alkalizing if necessary, with sodium carbonate and adding Zinc acetate	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Temperature</i>	---	High density polyethylene Polyethylene phthalate All kinds of glass	<i>In situ</i>	Cooling temperature	Immediate determination <i>in situ</i>	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Anionic surfactants</i>	250 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2 ZE2
	<i>Cationic surfactants</i>	250 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2
	<i>Toxicity</i>	100 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Turbidity	20 ml	High density polyethylene Polyethylene phthalate All kinds of glass	24 hours	Cooling temperature	Immediate determination <i>in situ</i> or cooling temperature	1 month Cooling temperature	ZE (0) 2
	Iodides	20 ml	All kinds of glass	24 hours	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 2

TYPE OF ANALYSIS: MICROBIOLOGICAL

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Foods	Enumeration	Recommended: 200 g Minimum: 20 g	Original container or aseptic closed container	Perishable samples: 1 day. Nonperishable samples (canned, frozen samples ...): 1 week.	According to usual storage	According to usual storage after opening	1 week	Freezing: ZE (-0) 8 Cold storage ZE (0) 8 Room temperature
Foods	Detection	Recommended: double the minimum. <u>Minimum:</u> Quantity in which the result is expressed (for example, "Not detected in 25 g" requires a minimum of 25 g and a recommended amount of 50 g)	Original container or aseptic closed container	Perishable samples: 1 day. Nonperishable samples (canned, frozen samples ...): 1 week.	According to usual storage	According to usual storage after opening	1 week	Freezing: ZE (-0) 8 Cold storage ZE (0) 8 Room temperature
Fertilizers	Enumeration	Recommended: 200 g Minimum: 20 g	Original container or aseptic closed container	Perishable samples or subject to modification: 1 day. Stable samples (stabilized biofertilizers, inorganic fertilizers): 1 week.	Cooling temperature In the case of biofertilizers, respect the manufacturer's storage conditions.	Cooling temperature In the case of biofertilizers, respect the manufacturer's storage conditions.	1 month	Cold storage: ZE (0) 8 Room temperature

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Fertilizers	Detection	Recommended: double the minimum. <u>Minimum:</u> Quantity in which the result is expressed (for example, "Not detected in 25 g" requires a minimum of 25 g and a recommended amount of 50 g)	Original container or aseptic closed container	Perishable samples or subject to modification: 1 day Stable samples (stabilized biofertilizers, inorganic fertilizers): 1 week.	Cooling temperature In the case of biofertilizers, respect the manufacturer's storage conditions.	Cooling temperature In the case of biofertilizers, respect the manufacturer's storage conditions.	1 month	Cold storage ZE (0) 8 Room temperature
Fertilizers	Test of viable weed seed propagules (determination of adventitious flora)	1 kg	Aseptic closed container	1 week	Room temperature	Room temperature	Not applicable (whole sample processed)	Room temperature
Fertilizers	Plant response (Pot growth test with Chinese cabbage)	1 kg	Aseptic closed container	1 week	Room temperature	Room temperature	Not applicable (whole sample processed)	Room temperature

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Soils and sludges</i>	<i>Enumeration</i>	Recommended: 200 g Minimum: 20 g	Aseptic closed container	1 day	Cooling temperature	Cooling temperature	1 month	ZE (0) 8
<i>Soils and sludges</i>	<i>Detection</i>	Recommended: double the minimum. <u>Minimum:</u> Quantity in which the result is expressed (for example, "Not detected in 25 g" requires a minimum of 25 g and a recommended amount of 50 g)	Aseptic closed container	1 day	Cooling temperature	Cooling temperature	1 month	ZE (0) 8
<i>Soils (substrates)</i>	<i>Test of viable weed seed propagules (determination of adventitious flora)</i>	1 kg	Aseptic closed container	1 week	Room temperature	Room temperature	Not applicable (whole sample processed)	Room temperature

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Soils (substrates)</i>	<i>Plant response (Pot growth test with Chinese cabbage)</i>	1 kg	Aseptic closed container	1 week	Room temperature	Room temperature	Not applicable (whole sample processed)	Room temperature
<i>Waters</i>	<i>Enumeration in 1 ml ⁽¹⁾</i>	Recommended: 200 ml Minimum: 20 ml	Closed aseptic container (with suitable neutralizer if inactivation of disinfectants is required).	8 hours (recommended guideline)	Cooling temperature	Cooling temperature	15 days	ZE (0) 8
<i>Waters</i>	<i>Enumeration in 100 ml ⁽¹⁾</i>	Recommended: 250 ml per determination Minimum: 150 ml	Closed aseptic container (with suitable neutralizer if inactivation of disinfectants is required).	8 hours (recommended guideline)	Cooling temperature	Cooling temperature	15 days	ZE (0) 8

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Waters	Detection ⁽¹⁾	Quantity in which the result is expressed (For example, "Not detected in 1 litre" requires a minimum of 1 litre)	Closed aseptic container (with suitable neutralizer if inactivation of disinfectants is required).	8 hours (recommended guideline)	Cooling temperature	Cooling temperature	15 days	ZE (0) 8
Waters	Legionella spp / L. pneumophila ⁽¹⁾	1 litre	Closed aseptic container (with suitable neutralizer if inactivation of disinfectants is required).	Recommended : 1 day Maximum : 5 days	Cooling temperature (6-18 °C)	Cooling temperature (6-18 °C)	15 days	ZE (0) 2
Waters	Helminth eggs ⁽¹⁾	10 litres	Closed aseptic container (with suitable neutralizer if inactivation of disinfectants is required).	1 day. With preservative (formaldehyde 4%): 2 months.	Room temperature	Not applicable (whole sample processed)	Not applicable (whole sample processed)	ZP8

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Swabs	Enumeration ^(2,3)	1 swab for various determinations (maximum 6 determinations per swab).	Dry surfaces: Swab with 10 ml of maximum recovery diluent (MRD). Moist surfaces without the presence of disinfectants: Dry swab. Surfaces (wet or dry) treated with disinfectants or unknown status: Swab with 10 ml of neutralizing rinse solution (NRS). Sample size: 100 cm² typically acceptable	1 day	Cooling temperature	Cooling temperature	1 week	ZE (0) 8
Swabs	Detection ⁽²⁾	1 swab for each determination	Dry surfaces: Swab with 10 ml of maximum recovery diluent (MRD). Moist surfaces without the presence of disinfectants: Dry swab. Surfaces (wet or dry) treated with disinfectants or unknown status: Swab with 10 ml of neutralizing rinse solution (NRS). Sample size: 100 cm² typically acceptable	1 day	Cooling temperature	Not applicable (whole sample processed)	Not applicable (whole sample processed)	ZE (0) 8

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Swabs	<i>Legionella spp / L. pneumophila</i>⁽²⁾	1 swab with 10 ml Ringer 1/40	1 swab with 10 ml Ringer 1/40. Sample size: 100 cm ² typically acceptable	Recommended : 1 day Maximum : 5 days	Cooling temperature (6-18 °C)	Cooling temperature (6-18 °C)	Cooling temperature (6-18 °C)	ZE (0) 2
Swabs	<i>Norovirus and Hepatitis A Detection</i>⁽²⁾	Moist swab in PBS	1 swab with 1-3 ml of PBS Sample size: 100 cm ² typically acceptable	Freezing temperature: 6 months	Cooling temperature. Freeze at your reception.	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Freezing: ZE (-0) 8
Contact plates	<i>Total Viable Count –TVC-</i>⁽³⁾	Sampled plate + transport control (blank plate)	1 Rodac PCA plate with neutralizer per sample point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (30 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Contact plates	Enterobacteriaceae (3)	Sampled plate + transport control (blank plate)	1 Rodac VRBG board per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (37 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable
Contact plates	Molds and yeasts (3)	Sampled plate + transport control (blank plate)	1 Rodac Rose Bengal Chloramphenicol plate per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (25 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable
Environment plates: Sedimentation	Total Viable Count -TVC- (4)	10 minutes	1 Rodac PCA plate per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (30 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Environment plates: Sedimentation	Molds and yeasts⁽⁴⁾	10 minutes	1 Rodac Rose Bengal Chloramphenicol plate per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (25 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable
Environment plates: Imp actation	Total Viable Count -TVC-⁽⁴⁾	100 litres	1 Rodac PCA plate per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (30 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable
Environment plates: Imp actation	Molds and yeasts⁽⁴⁾	100 litres	1 Rodac Rose Bengal Chloramphenicol plate per sampling point	8 hours (recommended guideline)	Room temperature until arrival at the laboratory. Incubation at (25 ± 1) °C according to the equipment assigned in PTV-MC-004 .	Not applicable (whole sample processed)	Not applicable (whole sample processed)	Not applicable

TIPO DE ANÁLISIS: FITOPATOLÓGICOS

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Vegetal material	<i>Fungi, bacteria, nematodes virus (general)</i>	Small plants: Complete plants with incipient and initial symptoms. Large plants: Area with the presence of incipient symptoms or front of the advance of damages. Parts with high humidity (sprouts, fruits ...) wrapped in absorbent paper.	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are sent, avoid direct contact among them (for example, placing each subsample in an individual bag and the whole in a box).	1 week	Room temperature, under gentle conditions (10-25 °C). Otherwise, cooling temperature.	Room temperature, under gentle conditions (10-25 °C). Cooling temperature in case of perishable samples	Until the end of the analysis	ZE (0) 9 ZE 9

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Vegetal material</i>	Mushrooms: <i>Verticillium dahliae</i>	Branches 5-10 mm in diameter and 15-25 cm in length. With symptoms, but not completely dry.	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are shipped, avoid direct contact between them.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature in case of presence of symptoms that endanger the sample stability (rots)	Until the end of the analysis	ZE (0) 9 ZE9
<i>Vegetal material</i>	Fungi: <i>Phytophthora spp</i>	Fine rootlets, digging several holes around the trunk of the affected plant (preferably from the root advance / drip line front). Keep with plenty of moist soil.	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are shipped, avoid direct contact between them.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature in case of presence of symptoms that endanger the sample stability (rots).	Until the end of the analysis	ZE (0) 9 ZE9

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Vegetal material	Bacteria: <i>Xylella fastidiosa</i>	Branches / cuttings with attached leaves (containing 10 to 25 leaves, depending on size). Symptomatic plants: 4-5 pieces of branches of 30-50 cm. of medium-fine diameter and length and some piece of adult branch with darkening in the xylomatic or cambium regions (rings or half-moons with dark colorations). Asymptomatic plants: 4-10 young branches of the upper-middle part of the crown.	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are shipped, avoid direct contact between them.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature in case of presence of symptoms that endanger the sample stability (rots).	Until the end of the analysis	ZE (0) 9 ZE9

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Plant material: Roots	Nematodes	20 g Roots and fine rootlets, digging several holes around the trunk of the affected plant (preferably from the root advance / drip line front). Keep with plenty of moist soil.	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are shipped, avoid direct contact between them.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature in case of presence of symptoms that endanger the sample stability (rots).	Until the end of the analysis	ZE (0) 9 ZE9
Vegetal material	Bacteria: Clavibacter michiganensis	Plants with decay symptoms	Watertight containers that avoid cross contamination and drying of the samples. If multiple zones or plants are shipped, avoid direct contact between them.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature in case of presence of symptoms endanger that endanger the sample stability (rots)	Until the end of the analysis	ZE (0) 9 ZE9
Plant Material : Seeds	Fungi, bacteria and viruses	100 units	Original container or closed aseptic container.	1 week	Room temperature	Room temperature	Until the end of the analysis	ZE 9

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Soils and substrates</i>	<i>Fungi, bacteria and nematodes</i>	500 g. Discard the first 5 cm of shallow soil. General: 20-40 cm deep. Lawn and meadows: 5 to 10 cm. Deep and fruity roots: 30-60 cm under the crown	Closed aseptic container.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under soft ambient conditions. (10-25 °C). Cooling temperature otherwise.	Until the end of the analysis	ZE (0) 9 ZE9
<i>Waters</i>	<i>Fungi, bacteria and nematodes</i>	500 ml	Closed aseptic container.	1 week	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Room temperature , under mild environmental conditions (10-25 °C). Cooling temperature otherwise.	Until the end of the analysis	ZE (0) 9 ZE9

TYPE OF ANALYSIS: PESTICIDES

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Fresh material vegetable. Small sized fresh produce, units generally <25 g e.g. berries, peas, olives*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	1000 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh material vegetable. Medium sized fresh produce, usually 25-250g e.g. apples, oranges*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	1000 g or at least 10 units	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. Large sized fresh produce, generally > 250g units eg cabbages, cucumbers, grapes*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	2000 g or at least 5 units	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Fresh plant material. Legumes e.g.: dried beans, dried peas*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	1000 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. Tree nuts except coconut*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	1000 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. Coconut*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	5 units	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. Oilseeds e.g.: peanut*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	500 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Fresh plant material. Seeds for the manufacture of beverages and sweets, e.g.: coffee beans*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	500 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. Aromatic herbs e.g.: fresh parsley*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	200-500 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material. dried spices*</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	100 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Fresh plant material and food</i>	<i>Dithiocarbamate analysis</i>	1000 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Fresh plant material: Products of high unit value</i>	<i>All included in the sample sets and determinations list</i>	Manager of Department will be consulted	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature.	ZE (0) 7
<i>Foods</i>	<i>All included in the sample sets and determinations list, except dithiocarbamates</i>	200 g	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	Fresh sample: 7 days at cooling temperature. Prepared: 1 month at freezing temperature	ZE (0) 7
<i>Chemicals and fertilizers</i>	<i>All included in the sample sets and determinations list</i>	100 or 200g (preferably homogeneous)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	60 days Room temperature	Z E 9

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
<i>Phytosanitary products</i>	<i>All included in the sample sets and determinations list</i>	20 g (preferably homogeneous)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	60 days Room temperature	ZE9
<i>Waters</i>	<i>Volatile Organic Compounds</i>	100 ml	Watertight glass containers that avoid cross contamination, with a thiosulfate spatula and without headspace.	1 day	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 7
	<i>PAHs</i>	1000 ml	Watertight glass containers that avoid cross contamination.	2 days	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 7
	<i>Pesticides</i>	1000 ml	Watertight glass containers that avoid cross contamination.	2 days	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 7
	<i>All included in the sample sets and determinations list</i>	1000 ml	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	2 days	Cooling temperature	Cooling temperature	1 month Cooling temperature	ZE (0) 7

Matrix	Determination	Minimum quantity required	Appropriate packaging type	Maximum period to start analysis from sampling	Transport conditions	Conservation conditions during analysis	Conservation time	Laboratory location Waiting area
Soils	<i>All included in the sample sets and determinations list</i>	1 or 2 kg (if it does not include coarse fraction)	Watertight containers that avoid cross contamination and do not provide any pollutants (bags, closed plastic or glass containers ...)	-	Room temperature	Room temperature. Places free of possible cross contaminations with particles from the environment, with other types of samples and / or pollutants.	1 month Room temperature	ZE7

* According to RD 380/2003, which establishes the sampling methods for the control of pesticide residues in products of plant and animal origin.

TEMPERATURE CONDITIONS

ACCEPTED TEMPERATURE RANGE			
Ambient Temperature	Transport Refrigeration Temperature	Storage Refrigeration Temperature	Storage Freezing Temperature
4-45 °C	2-8 °C	1-5 °C	< -18 °C

POST-ANALYSIS STORAGE AND DISPOSAL OF SAMPLES

TYPES OF ANALYSIS	MATTER	POST-ANALYSIS STORAGE CONDITIONS	POST-ANALYSIS STORAGE	DISPOSAL AREA	MAXIMUM PERIOD BEFORE DISPOSAL	DISPOSAL METHOD
A. PHYSICAL AND / OR-CHEMICAL (other than microbiological or pesticide)	Leaf, plant material	Cooling temperature (2-5 ° C)	AGMB1	Containers	Raw sample 1 month	Authorized manager
	Leaf, plant material	Room temperature	APA1	Containers	Prepared 1 month	Authorized manager
	Waters and aqueous solutions	Cooling temperature (2-5 ° C)	AGMB2	Containers	Raw sample: 1 week in refrigeration or for the duration of the tests, 3 weeks Room temperature	Authorized manager
		Room temperature				
	Waters and aqueous solutions	Cooling temperature (2-5 ° C)	APA 2	Containers	Prepared : 1 week in refrigeration or for the duration of the tests, 3 weeks Room temperature	Authorized manager
	Soils (raw)	Room temperature	AGMB3	Containers	1 month	Authorized manager
	Floors (prepared)	Room temperature	APA3	Containers	1 month	Authorized manager
	Chemicals and fertilizers (solid and liquid)	Room temperature	APA4, APA5, APA6	Containers	Raw solids 1 month	Authorized manager
			AGMB 4, 5, 6		Solids prepared 2 months	
					Liquids 2 months	
	Foods	Room temperature, r refrigeración, freezing	A GMB 10	Containers	Raw sample 1 month	Authorized manager
			ZE (-0) 10		Freezing 1 month	
	Sludge, sludge, materials to leach and others	Room temperature, r refrigeración	APA4, APA5, APA6	Containers	Raw sample 1 month	Authorized manager
			AGMB 4, 5, 3	Others consult Technical Director	Prepared 1 month	
			Others consult Technical Director		Others consult Technical Director	
B . Microbiological and Phytopathology	All	Cooling temperature (2-8 °C)	AGMB 8, 9	Microbiology containers	Until the end of the analysis	Authorized manager
C . PESTICIDES	All	Cooling temperature	ZE (0) 7	Containers	Raw sample 1 week	Authorized manager
	All	Freezing temperature	ZE (-0) 7	Containers	Processed 1 month	Authorized manager

Note	Comments
1	In the case of treated water, the disinfectant used must be neutralized at the time of sampling. For FITOSOIL sampling of chlorinated waters, the laboratory has aseptic commercial containers with thiosulfate. These bottles contain about 20 mg/litre and neutralize up to 5 ppm of free residual chlorine. For those samples treated with other disinfectants (especially in the case of analysis of <i>Legionella</i> in cooling towers, industrial facilities ...), the customer must proceed with its neutralization. The manufacturer of the disinfectant must indicate the neutralizer and the appropriate amount. In the registry of non-agricultural pesticides or biocides of the Ministry of health, Social Services and Equality you can obtain information about the authorized biocides, application procedure, incompatibilities, neutralizers, etc. (http : / /www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas, for consultation of those authorized for <i>Legionella</i>, enter the value "100" in the "Number" field). In the case of <i>Legionella</i>, in addition to the water sample, it may be necessary to scrape deposits and encrustations using a swab. See the guides edited by the Ministry for more detailed information on the sampling of facilities at risk of legionellosis (Technical Guidelines for the Prevention and Control of Legionellosis in facilities: http://www.msssi.gob.es/ciudadanos/saludAmbLaboral/agenBiologicos/guia.htm).
2	The laboratory reports the result in cfu/swab. Additionally, the report includes an informative table where these results are transformed to cfu/cm². In some cases, it is not possible to know the sampled surface (knives ...) or to sample the recommended surface. In this case, indicate to the laboratory the sample size or "unknown" to modify the expression of the results. For the fulfillment of a specific criterion, the sampling of a specific surface may be necessary. See point 3 "<i>NOTE REGARDING THE CHOICE OF SWABS OR CONTACT PLATES FOR SURFACE CONTROL</i>" for more information.
3	<i>NOTE REGARDING THE CHOICE OF SWABS OR CONTACT PLATES FOR SURFACE CONTROL</i> Contact plates are generally recommended for contamination control on dry, smooth and clean surfaces, for count determinations, presenting a working range (of result expression) of 1-100 cfu/plate (one plate equivalent to approximately 25 cm², so they have an equivalent range of 0,04-4 cfu/cm²). In general, they have greater recovery efficiency than swabs. Swabs can be used for any type of surface and have a typical detection limit of 10 cfu / sampled surface. The presence of disinfectant residues on the sampled surfaces can influence the result obtained. In order to sample and choose the appropriate material for your needs, it is always advisable to contact the laboratory in advance and communicate the type of surface to be sampled, the necessary determinations and the compliance requirements.
4	Environmental microbiological sampling can be carried out by sedimentation or impaction, the latter being the method recommended by the laboratory. As indicated, the recommended volume of air to analyze is 100 litres. In the case of using another volume, indicate to the laboratory the volume analyzed to modify the emission of results.