

Controlled Environment Agriculture Packages

2025



SGS

SOLUTION & WATER

Complete Solution

For fertilizer solutions

Total salt (EC), pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, sodium, chloride, sulphate, zinc, manganese, copper, iron, boron, silicon, molybdenum, bicarbonate, ammonium nitrogen

Complete Water

For water without fertilizer

Total salt (EC), pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, sodium, chloride, sulphate, zinc, manganese, copper, iron, boron, silicon, molybdenum, total hardness, bicarbonate, total dissolved solids

SOIL-LESS MEDIA

Basic

pH, nitrate nitrogen, phosphorus, potassium, calcium, magnesium, total salt (EC), sodium, chloride, sulphate

Complete

Basic plus ammonium nitrogen, zinc, manganese, copper, iron, boron, molybdenum, aluminum

Options

(If no package is selected, a base fee will apply)

Ammonium Nitrogen
Organic Matter

PLANT TISSUE PACKAGES

Basic

Nitrogen, phosphorus, potassium, magnesium, calcium

Complete

Basic plus zinc, manganese, copper, iron, boron, sulphur

Options

(If no package is selected, a base fee may apply)

Sulphur
Nitrate Nitrogen
Molybdenum
Chloride
Aluminum

FERTILIZERS

N, P205, K2O

Nitrogen, available phosphorus, soluble potash

N
P₂O₅
K₂O

FUNGAL, BACTERIAL & VIRUS SCANS

Several packages are offered to detect plant pathogens and beneficial organisms in water, media, soil and plant tissues.

HH Pathogen Mini

Select one pathogen to detect, either a bacteria, fungus, or virus.

HH Fungal Complete

Scans for over 400 plant fungi and reports most populous by %

HH Pathogen+

Scans for over 500 fungi, bacteria, and fungal-like organisms and reports most populous by %

HH Beneficials

Package includes all beneficial bacteria OR beneficial fungi as chosen by client

DNA Multiscan® Basic

A monitoring scan that reports levels of over 30 common fungal plant pathogens

DNA Multiscan® Diagnostic

A diagnostic scan that reports 70 fungal pathogens and subspecies

MICROBIOLOGICAL TESTS

Positive confirmation charge may apply

Total Coliform

E. Coli

Faecal Coliform

Listeria

Faecal Streptococcus

Salmonella +/-

Salmonella Positive Confirmation

Minimum sample size: 250 ml
Sterile bottle required — Microbiological analysis will be on a separate report.

Please submit your sample at the beginning of the week to ensure accurate results.

Samples arriving after Thursday 1pm, will not be accepted.

GREEN ROOF PACKAGES

Rooftop Substrate

Sand fraction, bulk density, water content, total pore space, maximum water capacity, air filled porosity, hydraulic conductivity/ permeability, organic matter, largest grain size.

Physical Properties

Total porosity, total air space, water holding capacity, bulk density, moisture.

Supplies and Forms

If you require sample containers or submission forms, please contact the laboratory.

PESTICIDE SCREENS

Pesticide testing can be performed on water, soil and plant material. Included chemicals can be provided upon request

GC/LC Scan

Over 400 chemical pesticides are included when testing by both GC and LC. Only those detected will be reported

Polar A Screen (Glyphosate)

Includes 15 chemicals including AMPA, glyphosate, glufosinate and perchlorate

Polar B Screen

(Diquat, Melamine, Paraquat)

Includes 20 chemicals

Phenoxy Acid Herbicides (2,4-D and Dicamba)

Includes 20 broadleaf herbicide chemicals

Please submit 50-100g for soil and plant tissue, or 50-100 ml for water samples. Phenoxy Acid Herbicide scan requires 1 liter of water

COMPOST PACKAGES

Compost I

Dry matter, nitrogen, organic matter, organic carbon, C/N ratio, pH, total salt (EC), phosphorus, potassium, calcium, magnesium, sodium

Compost II

Compost I plus cadmium, cobalt, chromium, copper, mercury, molybdenum, nickel, lead, selenium, zinc, arsenic, manganese, aluminum

Options

PCB
Foreign Material
Solvita Maturity Test

Contact details:

SGS GUELPH

503 Imperial Rd. N, Unit 1
Guelph, Ontario, N1H 6T9

☎ 1-800-265-7175

✉ ca.agri.guelph.lab@sgs.com

🌐 <https://cropscience.sgs.ca>

Prices subject to applicable taxes and may be changed without notice. Prices effective January 2025. Rates are in Canadian funds.

All SGS services are rendered in accordance with the applicable SGS general conditions of service accessible at http://www.sgs.com/en/terms_and_conditions