Name:

# Government of Newfoundland and Labrador Fisheries, Forestry and Agriculture

LABORATORY USE ONLY

#### GREENHOUSE GROWTH MEDIA SAMPLE SUBMISSION FORM

Personal information collected by the Soil, Plant & Feed Laboratory is used in order to process and report on samples submitted for analysis. This information is kept confidential and handled as required by the Access to Information and Protection of Privacy (ATIPP) Act. It may be shared within the Department for program delivery purposes. Any questions or comments can be directed to the Manager of Agricultural Research at 709. 637.2089

SAMPLE SUBMISSION INFORMATION

		Farm name:					Laboratory ID #:		
Farm Registration No.:									
Address:				Date received:					
City/Town:				Number of samples:					
Postal code:				Sample type:					
Phone: Fax:				Notes: Payr		Paymen	t		
e-mail:						Paid  Date:			
,, 									
				ANALYS	SIS				
Check: Details									
☐ Growth Media pH, Soluble Salts, Nitrates, P, K,									
☐ Nutrient Solution pH, Soluble Salts, Nitrates, P, K, C				Ca, Mg, Fe, Mn, Cu, Zn, B,	Na, Mo.				
			SA	AMPLE INFO	RMATION				
ab Sample ID Modia		Crops to be				LABORATORY USE ONLY			
Sample ID	Media T	ype*	grown	Purpose of Media		рН	Nitrates	H <sub>2</sub> O Cond.	
				☐ Seedlings ☐ Young pots and foliage plants ☐ Pot and bedding plants- growing on ☐ Vegetables in ground beds ☐ Roses, mums, snapdragons in					
				Comments	5:				
				†					
i	ddress: ity/Town: ostal code: hone: mail: c: heck:	ddress:  ity/Town:  ostal code:  hone:  mail:  c:  heck:  Growth Media  Nutrient Solution	ddress: ity/Town: ostal code: hone: -mail: c: heck: Detai l Growth Media pH, S l Nutrient Solution pH, S	ddress: ity/Town: ostal code: hone: Fax: mail: c: Details Growth Media DH, Soluble Salts, Nitr Nutrient Solution PH, Soluble Salts, Nitr SA Sample ID Media Type* Crops to be	ddress:  ity/Town:  ostal code:  hone: Fax:	Date received:    Ity/Town:   Number of samples:	Date received:    Interpretation   Content of Sample   Content of	Date received:    Ity/Town:	

Samples can be dropped off Monday – Friday 8:30 AM to 4:30 PM (closed 12:30-1:30 PM).

## Provincial Soil, Plant and Feed Laboratory Services and Pricing

## Sample Types Accepted at Laboratory:

Soil	Soil Amendment	Leaf Tissue	Feed
Mineral soil	Compost	Vegetable	Ration
Organic soil Greenhouse Growth Media	Manure	Fruit	Forage Grain Hay
G. S. a. a. Modia			Silage

Note: For information about sample analysis on other sample types not listed above, please call 709.729.6738

#### Costs:

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Routine soil analysis	\$9 + HST
Routine feed analysis	\$7 + HST
Greenhouse growth media analysis	\$7 + HST
Manure/Compost analysis	\$7 + HST

## **Home Gardeners**

Routine soil analysis \$20 + HST

Note: No discount for multiple samples

## Sample submission:

Send samples and completed Sample Submission Form with fee to:

Soil, Plant and Feed Laboratory Provincial Agriculture Building P.O. Box 8700, 204 Brookfield Road, St. John's NL, A1E 0B2 709.729.6738

Note: Fee should be payable by cash, credit card, cheque, or money order (to "Newfoundland Exchequer Account"). Debit can be used in person.



## Sampling Instructions

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#### • Sample Collection

Greenhouse growth media should be tested frequently during the entire growing period. Pre-plant media analyses provide an indication of potential nutrient deficiencies, pH imbalance, or excess soluble salts. Media testing during the cropping season is an important tool for monitoring pH and soluble salts levels and managing crop nutrient. To use this tool effectively, it is very important to collect the representative samples of the bed or bench of a given crop. A sampling strategy should consider crop species, planting time, container size and environmental parameters such as shading, location in greenhouse or nursery bed, etc.

The sampling unit might reasonably be a particular crop planted at one time and grown under the same condition. In a mixed greenhouse, crops different species must be sampled separately for the tests to have any value. If a problem is being diagnosed it is best to have a sample from both normal and abnormal plants for comparison. Once the sampling unit is determined, a composite sample can be assembled by taking several subsamples from randomly chosen pots within the unit and mixing them together into a large collective sample. This will give an overall estimate of the crop's nutrient status with the fewest number of samples.

For potted plants, a minimum of 3 pots should contribute to the composite sample. Subsamples are chosen randomly on the bench, including the edges, since differential drying of these pots can affect salts accumulation. Each of these subsamples should include the growth medium from the whole root zone from the surface to the bottom of the raised bed or container. There are significant differences in soluble salt levels for media from different depths in a pot or bed, especially at high fertilization rates, under sub-irrigation or when pots are not well leached. For plugs and small cell packs, 5 to 10 representative flats should contribute to the composite samples. A plant from each flat should be sacrificed and its media collected for the pooled sample. Having separate flats for sampling purposes avoids the problem of having empty cells. Thoroughly mix the subsamples together to create a pooled sample for lab analysis.

Samples should be taken at about the same time in relation to fertilization. If a crop is receiving routine liquid fertilization, it is generally accepted to wait four to six hours after the application before sampling, because drier samples are easier to handle. However, waiting too long after fertilization increases the variability between pots.

#### Sample sizes

500mL to 1000mL (1 litre).

# Sample Shipping

Make sure that media samples are shipped earlier in the week so that they reach the lab before the weekend.

Enclose the submission form in its own separate bag to prevent damage to the information on the form in case of a leak.