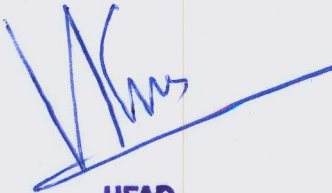


Chemistry Division
Forest Research Institute
PO New Forest, Dehradun 248 006

Testing Charges

Product / Material of test	Name of the test	Requirements (test sample)	Testing charges/Sample (Rs/=)
Essential oils, aroma chemicals	Estimation of oil contents on fresh weight basis by Hydro-distillation	500-1000 g. of raw material	3000.00
	Estimation of oil contents on moisture free basis by Hydro-distillation	500-1000 g. of raw material	3500.00
	Estimation of the contents of concrete and absolute by Solvent extraction	500-1000 g. of raw material	3000.00
	Extraction of essential oil using steam-distillation at semi pilot scale	30-40 kg of raw material	10000.00
	Determination of Specific gravity	15-20 g of oil	500.00
	Determination of Refractive index	2-5 g. of oil	500.00
	Determination of Optical rotation	10-15 g. of oil	1000.00
	Determination of solubility in alcohol	15-20 g. of oil	2000.00
	Determination of	5-10 g. of oil	2000.00


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	Acid value		
	Determination of Esters	5-10 g. of oil	2000.00
	Determination of carbonyls (Aldehydes & Ketones)	15-20 g. of oil	2000.00
	Determination of Phenols	15-20 g. of oil	2000.00
	Determination of Alcohols	15-20 g. of oil	2000.00
	Determination of Saponification value	5-10 g. of oil	2000.00
	Recording of GC-MS Of the essential oil	5 g of oil	4000.00
	Library assisted identification per peak	5 g of oil	1000.00
	Estimation of a single constituent in essential oil by GLC (if standard available)	5 g of oil/aromatic chemical	3000.00

Note:

1. An additional service tax will be charged as per prevailing rates.
2. Payment in advance should be made through DD drawn in favor of "Director, Forest Research Institute." payable at Dehradun.
3. Address for correspondence: Head, Chemistry Division, F.R.I. PO New Forest, Dehradun-248006. (Email; head_chemistry@icfre.org OR vinay.varshney5@gmail.com)
4. Contact No. 0135-2752671, 0135-2224207; 0135-2224208.


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