

Testing charges for various analyses as mentioned in BIS of respective essential oils*

S. No.	IS No.	Product Name	Clause No.	Characteristic	Testing charges in rupees
1.	IS 528: 1999 (RA 2012)	Oil of Mentha arvensis	5.3 and 5.4	(i) Colour and appearance	240
				(ii) Odour	
				(iii) Solubility	365
				(iv) Optical rotation	360
				(v) Refractive index at 27 °C	120
				(vi) Relative density at 27 °C	190
				(vii) Free alcohols (by GC)	Includes GC analysis charges as (x) - 725
				(viii) Ester value	240
				(ix) Total alcohols	Includes ester value and ester value after acetylation charges as (viii) - 240 and (xi) - 395
Total					2635
2.	IS 587: 1997 (RA 2014)	Oil of Geranium	Foreword (Annex B), 4.2, 4.2.1 and 4.3	(i)-(vi) and (viii)	Same as described earlier
				(x) GC analysis	725
				(xi) Ester value after acetylation	395
				(xii) Acid value	240
Total					2875
3.	IS 1177: 1996 (RA 2014)	Oil of Vetiver	Foreword (Annex A) and 5.2	(x), (i)-(vi), (viii), (ix), (xi) and (xii)	Same as described earlier
				(xiii) Combined alcohol, percent	Includes ester value charge as (viii) - 240
				(xiv) Free alcohols	Includes ester value and ester value after acetylation charges as (viii) - 240 and (xi) - 395
Total					2875
4.	IS 512: 1988 (RA 2014)	Oil of Citronella (Java)	0.3, 3.2 and 3.3	(x), (i)-(vi) and (ix)	Same as described earlier
Total					2635
5.	IS 328: 2016	Oil of Eucalyptus globulus	Foreword (Annex D), 5.2 and 5.6	(x) and (i)-(vi)	Same as described earlier
				(xv) Refractive index at 20 °C	120
				(xvi) Relative density at 20 °C	190
Total					2310

6 (a)	IS 6698: 1972 (RA 2000)	Oil of Clove bud	4.3 and 4.5	(i)-(vi) and (ix)	Same as described earlier
Total					1910
6 (b)	IS 6698: 1972 (RA 2000)	Oil of Clove leaf	4.3 and 4.5	(i)-(vi) and (ix)	Same as described earlier
Total					1910
6 (c)	IS 6698: 1972 (RA 2000)	Oil of Clove stem	4.3 and 4.5	(i)-(vi) and (ix)	Same as described earlier
Total					1910
7.	IS 9257: 1993 (RA 2015)	Oil of Eucalyptus citriodora	Foreword (Annex A), 4.2 and 4.3	(x) and (ii)-(vi)	Same as described earlier
Total					2000
8.	IS 15069: 2001 (RA 2012)	Oil of Cuminseed	4.2, 4.3 and 4.4	(i)-(vi) and (x)	Same as described earlier
Total					2000
9.	IS 5757: 1992 RA (2014)	Oil of Pine	4.3	(ii), (v), (vi), (x) and (xii)	Same as described earlier
Total					1515
10.	IS 15068: 2001 (RA 2012)	Oil of Cardamom	4.2, 4.3 and 4.4	(i)-(vi), (viii), (xii) and (x)	Same as described earlier
Total					2480
11.	IS 3398: 2003 (RA 2014)	Oil of Patchouli	4.2 and 4.3	(i)-(vi), (viii), (xii) and (x)	Same as described earlier
Total					2480
12.	IS 329: 2004 (RA 2015)	Oil of Sandalwood	4.2 and 4.3	(i)-(vi), (viii), (ix) and (x)	Same as described earlier
			Foreword (Annex A)	(xvii) Detection of adulterants in oil of Sandalwood by TLC only	395
Total					3030
13.	IS 761: 2017	Oil of Ginger	0.4, 3.2 and 3.3	(x), (i)-(vi), (viii), (xv) and (xvi)	Same as described earlier
Total					2550
14 (a)	IS 526: 2007 (RA 2012)	Oil of Palmarosa (var. <i>Motia</i>)	4.2, 4.4 and 4.6	(i)-(vi), (viii)-(xii), (xv) and (xvi)	Same as described earlier
Total					3185
14 (b)	IS 526: 2007 (RA 2012)	Oil of Gingergrass (var. <i>Sofia</i>)	Foreword (Annex B)	(i), (ii), (iv), (viii), (ix), (xi), (xii), (xv) and (xvi)	Same as described earlier
Total					1785

15.	IS 527: 1991 (RA 2014)	Oil of Lemongrass	4.2, 4.3 and 4.4	(x) and (i)-(vi)	Same as described earlier
Total					2000
16.	IS 15136: 2002 (RA 2014)	Oil of Basil	4.2, 4.3 and 4.4	(ii)-(vi), (ix), (xii) and (x)	Same as described earlier
Total					2875
17.	IS 6699: 1989 (RA 2015)	Oil of Cinnamon leaf	Foreword (Annexure A), 4.2 and 4.3	(x), (v), (vii) and (viii)	Same as described earlier
Total					1400
18.	IS 3147: 1992 (RA 2014)	Oil of Dill seed	Foreword (Annexure A), 4.2 and 4.3	(x), (i)-(vi), (viii) and (xi)	Same as described earlier
Total					2635
19.	S 15135: 2002 (RA 2014)	Oil of Davana	4.2 and 4.3	(i)-(vi), (viii), (x) and (xii)	Same as described earlier
Total					2480
20.	IS 3146: 1991 (RA 2014)	Oil of Celery Seed	Foreword (Annex A), 4.3 and 4.4	(x), (i)-(vi) and (xii)	Same as described earlier
				(xviii) Saponification value	Includes ester value charge as (vi) - 240
Total					2480
21.	IS 533: 2007 (RA 2012)	Gum Spirit of Turpentine (Oil of Turpentine)	4.4 (4.4.1 and 4.4.2) and 4.7	(iii), (v), (vi), (x), (xii), (xv) and (xvi)	Same as described earlier
Total					1950
22.	IS 1615: 1996 (RA 2014)	Oil of Himalayan Cedarwood	Foreword (Annex A), 4.2 and 4.3	(x), (i)-(vi), (viii), (xi) and (xii)	Same as described earlier
Total					2875
23.	IS 15070: 2001 (RA 2012)	Oil of Black Pepper	4.2, 4.3 and 4.4	(i)-(vi), (viii) and (x)	Same as described earlier
Total					2240
24.	IS 13261: 1991 (RA 2002)	Oil of Mentha Citrate	Foreword (Annex A), 4.2 and 4.3	(i)-(vi), (viii)-(x) and (xii)	Same as described earlier
Total					2875
25.	IS 14508: 1998 (RA 2015)	Oil of Jamrosa	4.3 and 4.4	(i)-(vi) and (viii)-(x)	Same as described earlier

Total					2023
26.	IS 15740: 2007 (RA 2012)	Oil of Rose	4.1 and 4.2	(i), (ii), (iv)-(vi), (x), (xv) and (xvi)	Same as described earlier
Total					1945

* 30 grams of sample is required for the tests numbering (i)-(vii) & (xv)-(xvi) whereas 50 grams quantity is needed for the tests numbering (i)-(xviii).

Testing charges for floral water (rose/kewra/jasmine etc) with required quantity

S. No.	Characteristic	Testing charges in rupees	Quantity in ml
1.	Optical rotation	360	100
2.	Refractive index at 27 °C	120	
3.	Relative density at 27 °C	190	
4.	pH value	365	

Testing charges for %age yield of essential oil/concrete/oleoresin in crude material with required quantity*

S. No.	Method	Testing charges in rupees	Quantity in gms
1.	%age yield by hydro-distillation method	725	500
2.	%age yield by solvent extraction method	1090	300

* If the sample consists of woody material or stem or root or bark, they should be sent as chopped into small pieces/powdered form while the material consisting of bud, flower, seed or leaf can be sent as such to us.

Testing charges for %age area with name of major and minor volatile components present in essential oil/oleoresin/compound/solvent extract/ fragrance and flavour etc by GC-MS analysis with required quantity

S. No.	Name of analysis	Testing charges in rupees	Quantity in ml
1.	GC-MS analysis	6050	5 ml

Note: In the above mentioned rates tax has not been included. One has to pay additional 18 % as GST along with the charges mentioned above.

- There will be provided a discount of 50% to the research scholars/students.
- The samples should be sent at the following address with a covering letter acknowledging details about the nature of the sample and the analyses you want us to carry out for your samples.

**The Principal Director I/c
Quality Assessment Laboratory
Fragrance and Flavour Development Centre
Makrand Nagar
G. T. Road, Kannauj 209726**