

Sweet basil

Ocimum basilicum L.

Family : Lamiaceae

Hindi name : Babui tulsi

Breeding behaviour : Self to cross-

PollinatedHabit : Herb to undershrub

1 Plant habit

PLT_HBT

To be recorded at flower initiation stage (visual scoring)

1 Annual

2 Perennial

99 Others (Specify in the "REMARKS" descriptor)

2 Mode of reproduction

M_REPROD

To be recorded as distinguishing character at species level

1 Asexual

2 Sexual

3 Plant growth habit

GRW_HAB

To be recorded at flower initiation stage (visual scoring)

1 Semi-erect

2 Erect

99 Others (Specify in the "REMARKS" descriptor)

4 Stem colour

STEM_CLR

To be recorded at initiation of flowering (visual scoring) using RHS colour chart**

1 Light green

2 Brownish

3 Purple-green

4 Purple

99 Others (Specify in the "REMARKS" descriptor)

5 Stem pubescence

STEM_PUB

To be recorded at initiation of flowering (visual scoring)

0 Glabrous

3 Sparse

5 Medium

7 Dense

99 Others (Specify in the “REMARKS” descriptor)

6 Stem shape **STEM_SHP**

To be recorded at initiation of flowering (visual scoring)

1 Quadrangular

2 Sub-terete

99 Others (Specify in the “REMARKS” descriptor)

7 Number of primary branches per plant **PRI_BRN**

To be recorded at flowering stage (average of 10 random plants)

Quantitative

8 Lamina length (cm) **LAM_LT**

To be recorded on fully developed leaves at flowering stage (average of 10 random leaves)

Quantitative

9 Lamina width (cm) **LAM_WD**

To be recorded on fully developed leaves at flowering stage (average of 10 random leaves)

Quantitative

10 Lamina colour **LAM_CLR**

To be recorded at initiation of flowering (visual scoring) using RHS colour chart**

1 Light green

2 Dark green

3 Purplish green

99 Others (Specify in the “REMARKS” descriptor)

11 Lamina shape **LAM_SHP**

To be recorded at flowering stage (visual scoring)

1 Ovate

2 Sub-ovate

3 Ovate-lanceolate

99 Others (Specify in the “REMARKS” descriptor)

12 Lamina margin **LAM_MARG**

To be recorded at flowering stage (visual scoring)

1 Entire

2 Sub-serrate

3 Serrate

99 Others (Specify in the "REMARKS" descriptor)

13 Lamina pubescence

LAM_PUB

To be recorded at flowering stage (visual scoring)

0 Glabrous

3 Sparse

5 Medium

7 Dense

99 Others (Specify in the "REMARKS" descriptor)

14 Lamina surface

LAM_SURF

To be recorded at flowering stage (visual scoring)

1 Smooth

2 Bullate

99 Others (Specify in the "REMARKS" descriptor)

15 Leaf-stem ratio

LS_RATIO

To be recorded on fully developed plants at flowering stage

Quantitative

16 Days to flower initiation

DAY_FLW

To be recorded as number of days from sowing/planting to the day when
Flowering starts

Quantitative

17 Inflorescence type

INFL_TYP

To be recorded at full bloom stage (visual scoring)

1 Simple (unbranched)

2 Branched

99 Others (Specify in the "REMARKS" descriptor)

18 Number of spikes per plant

SPIK_LT

To be recorded at full bloom stage (average of 10 random plants)

Quantitative

- 19 Spike length (cm)** SPIK_LT
To be measured at full bloom stage (average of 10 random spikes)
Quantitative
- 20 Number of flower-whorls per spike** FLW_SPIK
To be counted at full bloom stage (average of 10 random spikes)
Quantitative
- 21 Number of flowers per whorl** FLW_WHOR
To be counted at full bloom stage (average of 10 random whorls)
Quantitative
- 22 Flower colour** FLW_CLR
To be recorded at full bloom stage (visual scoring) using RHS colour chart**
- 1 White
 - 2 Pinkish-white
 - 3 Pale purple
 - 4 Pink purple
 - 99 Others (Specify in the "REMARKS" descriptor)
- 23 Plant height (cm)** PLT_HGT
To be measured from ground level to the tip of the plant at complete flowering stage
(average of 10 random plants)
Quantitative
- 24 Fresh herbage yield per plant (g)** YLD_PLTF
To be recorded on fresh weight basis at full flowering stage (average of 10 random
plants)
Quantitative
- 25 Dry herbage yield per plant (g)** YLD_PLTD
To be recorded on dry weight basis (shade drying) (average of 10 random plants)
Quantitative
- 26 Days of seed maturity** SED_MAT
To be recorded as number of days from sowing/planting to complete seed maturity
Quantitative
- 27 Seed yield per plant (g)** SED_YLD

To be recorded at complete maturity stage (average of 10 random plants)

Quantitative

28 Seed shape

SED-SHP

To be recorded on mature and dried seeds (visual scoring)

1 Globose

2 Ellipsoid

3 Oblong-ellipsoid

99 Others (Specify in the "REMARKS" descriptor)

29 Seed colour

SED_CLR

To be recorded on mature and dried seeds (visual scoring) using RHS colour chart**

1 Dark brown

2 Dark grey

99 Others (Specify in the "REMARKS" descriptor)

30 1000 seed weight (g)

SED_WGT

To be recorded on mature and dry seeds

Quantitative

31 Essential oil content (%)

ESS_OIL%

To be estimated by distillation of aerial parts on fresh weight basis and expressed on dry weight basis

Quantitative

32 Essential oil yield per plant (ml)

OIL_YLD

To be extracted on fresh weight basis by steam distillation at full bloom stage

Quantitative

33 Biotic notes

To be estimated by BIS method

i Colour

PC_CLR

ii Appearance

PC_APP

iii Solubility

PC-SOL

Quantitative

iv Refractive index

PC_REFR

Quantitative

v Specific gravity

PC_GRAV

Quantitative

vi	Optical rotation at 27° C/Specific Gravity Quantitative	PC_OPT
vii	Acid value Quantitative	PC_ACID
viii	Ester value Quantitative	PC_ESTER
ix	Saponification value Quantitative	PC_SAPON
x	Ester value effect after acetylation Quantitative	PC-ACETY
34	GC profile of essential oil To be estimated by GC method	
I	Linalool content in oil (%) Quantitative	LINALOOL%
ii	Methyl chavicol content in oil (%) Quantitative	M_CHVCOL%
iii	Methyl cinnamate content in oil (%) Quantitative	M_CINMAT%
iv	Eugenol content in oil (%) Quantitative	EUGENOL%
v	1,8-cineol content (%) Quantitative	1,8_CINEOL%
vi	Eugenyl acetate content in oil (%) Quantitative	EUG_ACET%
35	Biotic Stress Susceptibility	BSS
	Specify the infestation or infection using any 1-9 scale.	
	Note: For Additional information as common name (S) of disease(S)/pest(S) and casual organism(S) may be appended in the BIOTIC NOTE descriptor.	
	1 Very low or no visible sign of susceptibility	
	3 Low	
	5 Intermediate	

7 High

9 Very high

37 Biotic notes

BIO_NOTE

Text

38 Remarks

REMARKS

Text