

Lemon balm (*Melissa officinalis* L). Descriptors

Methods. Characterization is done on 2-3 years old plants in full flowering stage. Vegetative propagation by cuttings. Accessions evaluated in 4 replications of 10 plants each.

III Characterization and evaluation descriptors

Descriptor code	Number of trait in other descriptor	Descriptor scale	Reference values	Remarks
III/1		Plant height (cm)		
		3 Short 5 Medium 7 High	<50 50-90 >90	Annex1. The whole plant from soil to top
III/2		Branching of plant		
		1 Sparse 3 Medium 5 Dense		Annex 1, fig.1
III/3		Form-habitus of plant		
		1 Erect 3 Semi-erect		
III/4		Stem hair on surface		
		1 soft 3 medium typical 5 typical		
III/5		Density of shoot leafiness		
		1 Sparse 2 Medium 3 Dense		Using RHS Colour Chart or as below
III/6		Number of internodes on main stem		
				. Annex1. fig.1
III/7		Leaf shape		
		1 Egg shaped		Annex 2, Fig.2

		2 Diamond		
III/8		Leaf length (cm)		
		3 Short 5 Medium 7 Length	<5 5-8 >8	Leaves of middle part of main stem
III/9		Leaf width (cm)		
		3 Narrow 5 Medium 7 broad	<3 3-5 >5	
III/10		Length of leaf petiole(cm)		
		3 Short 5 Midle 7 nung	<1,8 1,8-2,5 >2,5	
III/11		Leaf blade margin		
		1 toothed 2 Serrate		
III/12		Leaf colour		
		1 Light green 2 Green 3 Grey green 4 Dark green	.	Using RHS Colour Chart or as below
III/13		Length of inflorescence (cm)		
		3 Short 5 Medium 7 Long		Annex 2, Fig.1
III/14	*	Number of flowers in whorls		
				Annex 1, fig.1 . Average of 10 plants
III/15		Color of corolla		
		1 white 2 yellowish		Flowers picture in Annex1, fig.1. Using RHS Colour Chart or as below

		3 light violet 4 pale pink		
III/16		Lenght of corolla (mm)		
		1 Short 3 Medium 5 long	<1,3 1,3-1,5 >1,5	Average of 10 flowers, using stereo microscope
III/17		Size of calyx (mm)		
		1 Lenght 3 Width 5 Ratio lenght/width		Average of 10 flowers, using stereo microscope
III/18		Pubescence of calyx		
		1 Absent 2 Present		
III/19	*	Upperlip with 2 lobules		
		1 Present 3 Absent		Discriminating feature
III/20	*	Underlip -3 smooth lobules, midle lobule large		
		1 Present 3 Absent		Discriminating feature
III/21		Beginning of flowering		
		3 Early 5 Medium 7 late	Middle of June Start of July Middle of July	
III.22		Weight of 1000 seeds (g)		
III/23		Susceptibility to diseases and pests		
III/24		Total amount of essential oil (%)		
				Gas Chromatography
III/25		Compositional characteristics of essential oil (%)		
		Ratio of citral		Gas Chromatography

		Ratio of citronellal Ratio of linalool Ratio of geranol		
III/26		Cytological characters and definite gene		
III/27		Molecular markers		
III/28		Remarks		
III/29		Pictures		Annex1, Annex2