

Plant		Perilla		119(08030)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant habit	10 plant	Observation	3:Erect 5:Intermediate 7:Spreading 9:Prostrate		Judge based on the angle of lower primary branches at the end of flowering stage
2	Stem length	10 plants	Measurement	cm (round to the 1st decimal place)		Measure at the end of flowering stage
3	Anthocyanin	10 plants	Observation	0:None 3:Light 5:Intermediate 7:Dark		Observe antocyanin pigmentation of first-third internodes from top at flowering stage
4	Number of primary branches	10 plants	Measurement	Number/plant (round to the 1st decimal place)		Number of primary branches in length more than 5 cm at the end of flowering stage
5	Leaf shape	10 plants	Observation	2:Egg shaped 3:Short round 4:Round 5:Slightly round 6:Intermediate 7:Slightly long 8:Long 9:Very long		Observe the largest leaf at the full grow stage
6	Leaf incision	10 plants	Observation	0:None 3:Extremely shallow 4:Slightly shallow 5:Intermediate 6:Slightly deep 7:Deep 8:Very deep 9:Extremely deep		Observe the largest leaf at the full grow stage
7	Leaf size	10 plants	Observation	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Observe the largest leaf at the full grow stage
8	Leaf length	10 plants	Measurement	cm (round to the 1st decimal place)		Observe the largest leaf at the full grow stage
9	Leaf width	10 plants	Measurement	cm (round to the 1st decimal place)		Observe the largest leaf at the full grow stage
10	Leaf undulation	10 plants	Observation	0:None 3:Little 5:Intermediate 7:Much		Observe the largest leaf at the full grow stage
11	Ruffleness of leaf	10 plants	Observation	0:None 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Observe the largest leaf at the full grow stage
12	Leaf color of adaxial side	10 plants	Observation	0:Other 1:Light green 2:Green 3:Dark green 4:Light blue green 5:Blue green 6:Dark blue 7:Light reddish purple 8:Reddish purple 9:Dark reddish purple		Scores 1-3 are for green leaf type, scores 4-6 are for red back type, scores 7-9 are for red type.

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13	Leaf color of abaxial side	10 plants	Observation	0:Other 1:Light green 2:Green 3:Dark green 4:Light blue green 5:Blue green 6:Dark blue green 7:Light reddish purple 8:Reddish purple 9:Dark reddish purple	Scores 1-3 are for green leaf type, scores 4-6 are for red back type, scores 7-9 are for red type.
14	Antocyanin of leaf vein	10 plants	Observation	0:None 2:Light purple on vein 3:Purple on vein 4:Dark purple on vein 5:Light purple 6:Purple 7:Dark purple	

Plant		Perilla		119(08030)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Seed color	10 plants	Observation	2:Gray 3:Light brown 4:Grayish brown 5:Brown 6:Dark brown 7:Light blackish brown 8:Blackish brown		
2	Seed size	10 plants	Measurement	mm (round to the 1st decimal place)		Investigate diameter of seeds on longer side
3	Cotyledon size	10 plants	Measurement	mm (round to the 1st decimal place)		Length of cotyledon at the first true leaf stage
4	Cotyledon color of adaxial side	10 plants	Observation	1:Light green 2:Green 3:Dark green 4:Light blue green 5:Blue green 6:Dark blue green 7:Light reddish purple 8:Reddish purple 9:Dark reddish purple		Observe at the first true leaf stage
5	Cotyledon color of abaxial side	10 plants	Observation	1:Light green 2:Green 3:Dark green 4:Light blue green 5:Blue green 6:Dark blue green 7:Light reddish purple 8:Reddish purple 9:Dark reddish purple		Observe at the first true leaf stage
6	Plant vigor	10 plants	Observation	3:Weak 5:Intermediate 7:Strong		Observe at middle growing stage
7	Leaf shape index	10 plants	Measurement	(round to the 1st decimal place)		Leaf length/leaf width
8	Shape of serration	10 plants	Observation	0:None 1:Small triangle 2:Large triangle 3:Small pentagonal 4:Large pentagonal 9:Other		
9	Glossiness of adaxial side of leaves	10 plants	Observation	1:Very low 3:Low 5:Intermediate 7:High		
10	Petiole length	10 plants	Measurement	cm (round to the 1st decimal place)		
11	Leaf thickness	10 plants	Observation	3:Thin 5:Intermediate 7:Thick		
12	Antocyanin coloration of abaxial side of leaf	10 plants	Observation	0:None 2:Only on main vein 3:Whole vein 4:Light on whole leaf 5:Intermediate on whole leaf 6:Dark on whole leaf		
13	Occurrence of leaf fall at late autumn	10 plants	Observation	1:None 3:Low 5:Intermediate 7:High		Degree of leaf fall at late autumn

Plant		Perilla		119(08030)	Primary optional character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
14	Number of secondary branches	10 plants	Measurement	(round to the 1st decimal place)	Number of secondary branches of 5 cm in length at the end of flowering stage
15	Branching of inflorescence	10 plants	Observation	0:None 3:Few 5:Intermediate 7:Many	
16	Length of inflorescence	10 plants	Measurement	cm (round to the 1st decimal place)	Average length of inflorescence on main stem and three longer inflorescences on branches at the end of flowering stage
17	Size of floret	10 plants	Observation	3:Small 5:Intermediate 7:Large	Observe floret at the top of main stem
18	Petal shape	10 plants	Observation	1:Single 2:Double 3:Other	Arrangement of petals in a flower
19	Petal color	10 plants	Observation	1:White 3:Light reddish purple 5:Reddish purple 7:Dark reddish purple	
20	Size of calyx	10 plants	Observation	3:Small 5:Intermediate 7:Large	Observe at the widest diameter of calyx at the end of flowering stage

Plant	Perilla	119(08030)	Secondary essential character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Earliness of growth	10 plants	Observation	3:Early 5:Intermediate 7:Late	
2	Earliness of bolting	10 plants	Observation	3:Early 5:Intermediate 7:Late	

Plant		Perilla		119(08030)	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Tolerance to low temperature	10 plants	Observation	3:Low 5:Intermediate 7:High		
2	Tolerance to high temperature	10 plants	Observation	3:Low 5:Intermediate 7:High		
3	Tolerance to drought	10 plants	Observation	3:Low 5:Intermediate 7:High		
4	Tolerance to excess moisture	10 plants	Observation	3:Low 5:Intermediate 7:High		
5	Resistance to Sclerotinia disease	10 plants	Observation	0:None 3:Low 5:Intermediate 7:High		
6	Resistance to Botrytis disease	10 plants	Observation	0:None 3:Low 5:Intermediate 7:High		
7	Resistance to insects	10 plants	Observation	0:None 3:Low 5:Intermediate 7:High		

Plant	Perilla	119(08030)	Tertiary essential character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Flavor of leaves	10 plants	Sensory	3:Light 5:Intermediate 7:Dark	

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Anthocyanin coloration of processed good	10 plants	Observation	3:Low 5:Intermediate 7:High		Degree of Anthocyanin coloration on pickled Japanese apricot by red perilla
2	Smell of inflorescence at flowering stage	10 plants	Sensory	3:Low 5:Intermediate 7:High		Smell of inflorescence at 50% florets have opened
3	Smell of inflorescence after flowering stage		Sensory	3:Low 5:Intermediate 7:High		Smell from inflorescence of flowering perilla during harvesting time