

Plant		Kohlrabi		75(08014)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant habit	10 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi-prostrate 7:Prostrate		Observe at harvesting stage
2	Leaf number	10 plants	Observation	3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		Observe at harvesting stage
3	Leaf incision	10 plants	Observation	1:Entire 2:Entire-Lobate 3:Lobate 4:Lobate-Cleft 5:Cleft 6:Cleft-parted 7:Parted 8:Parted-Desect 9:Desect		
4	Number of lobes in leaf	10 plants	Observation	0:None 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely many		
5	Marginal undulation of leaf	10 plants	Observation	0:None 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely many		
6	Petiole width	10 plants	Observation	1:Extremely narrow 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly broad 7:Broad		
7	Bulb shape	10 bulbs	Observation	1:Transverse elliptic 2:Transverse elliptic-circular 3:Circular 4:Circular-Reverse conic 5:Reverse conic 6:Reverse conic-Elliptic 7:Elliptic		Observe at harvesting stage
8	Bulb color	10 bulbs	Observation	1:White 2:White-Light green 3:Light green 4:Light green-Green 5:Green 6:Green-Light green 7:Light purple 8:Purple 9:Dark purple		Observe at harvesting stage
9	Bulb height	10 bulbs	Measurement	mm (integer)		Observe at harvesting stage
10	Bulb width	10 bulbs	Measurement	mm (integer)		Observe at harvesting stage
11	Maturity	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Leaf shape	10 plants	Observation	1:Lanceolate 2:Lanceolate-Spatulate 3:Spatulate 4:Spatulate-Reverse ovate 5:Reverse ovate 6:Reverse ovate-Short ellipsoid 7:Short ellipsoid 8:Short ellipsoid-Circle 9:Circle		
2	Leaf length	10 plants	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Of the largest leaf
3	Leaf shape of lobe	10 plants	Observation	0:None 1:Extremely narrow 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly broad 7:Broad		
4	Leaf color	10 plants	Observation	1:Pale yellow 2:Pale yellow-Pale green 3:Pale green 4:Pale green-Green 5:Green 6:Green- Dark green 7:Dark green 8:Dark green-Bluish green 9:Bluish green		
5	Leaf glossyness	10 plants	Observation	3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		
6	Leaf wax	10 plants	Observation	3:Little 4:Slightly little 5:Intermediate 6:Some 7:Much		
7	Leaf undulation (whole area)	10 plants	Observation	0:None 1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Some 7:Many		
8	Number of lobes in leaf	10 plants	Observation	0:None 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many		
9	Leaf thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		
10	Thickness of petiole or midrib	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		At 1/4 point from the base of the largest leaf
11	Petiole or midrib color	10 plants	Observation	1:White 2:Very light green 3:Light green 4:Slightly light green 5:Green 6:Slightly light purple 7:Light purple 8:Purple 9:Dark purple		
12	Petiole length	10 plants	Observation	0:None 1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Of the largest leaf

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
13	Shape of bulb head	10 plants	Observation	3:Depressed 4:Slightly depressed 5:Flat 6:Slightly protrude 7:Protrude	At harvesting stage
14	Shape of bulb bottom	10 plants	Observation	1:Depressed 2:Depressed-Flat 3:Flat 4:Flat- Round 5:Round 6:Semi-flat 7:Tapered 8:Slender tapered	At harvesting stage
15	Thickness of bulb cortex	10 plants	Measurement	mm (round to the 1st decimal place)	At the thickest position
16	Bulb pithyness	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late	
17	Thickness of tap root	10 plants	Observation	3:Slender 4:Slightly slender 5:Intermediate 6:Slightly thick 7:Thick	At harvesting stage
18	Bolting	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late	Evaluate by natural occurrence

Plant		Kohlrabi		75(08014)	Secondary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Clubroot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation
2	Fusarium yellow resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation
3	Soft rot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence or artificial inoculation

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Adaptability to summer cropping	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluate as the easiness of high-quality production in hot season cropping
2	Bulb growth under low temperature	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by growth rate of bulb in cold season cropping
3	Diamondback moth resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence
4	Green caterpillar resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence
5	Aphid resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	Evaluated by natural occurrence

Plant		Kohlrabi		75(08014)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Bulb weight	10 heads	Measurement	g (round to the 1st decimal place)		
2	Brix-1	10 plants	Sensory	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		As the sweetness of fresh bulb
3	Brix-2	20 plants	Measurement	g (round to the 1st decimal place)		For fodder variety. Measure brix of squeezed juice of fresh bulb

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Suitability for salad	10 plants	Sensory	3:Unsuitable 4:Slightly unsuitable 5:Intermediate 6:Slightly suitable 7:Suitable	
2	Suitability for stir fly	10 plants	Sensory	3:Unsuitable 4:Slightly unsuitable 5:Intermediate 6:Slightly suitable 7:Suitable	
3	Suitability for weak-salted pickles	10 plants	Sensory	3:Unsuitable 4:Slightly unsuitable 5:Intermediate 6:Slightly suitable 7:Suitable	
4	Fresh of bulb hardness	10 plants	Sensory	3:Soft 4:Slightly soft 5:Intermediate 6:Slightly hard 7:Hard	
5	Fresh of bulb solidity	10 plants	Sensory	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	