

Plant		Broad-leaved mustard		76(08015)	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	Posture of a single plant, at harvesting stage	
2	Leaf shape	10 plants	Observation	1:Lanceolate 2:Reverse lanceolate 3:Spatulate 4:Ovate 5:Reverse ovate 6:Long ellipsoid 7:Short ellipsoid 8:Circle 9:Broad circle	As outline of leaf blade excluding petiole (desected part is regarded as petiole)	
3	Leaf color	10 plants	Observation	1:Light yellow 2:Light yellow green 3:Light green 4:Slightly light green 5:Green 6:Slightly dark green 7:Dark green 8:Very dark green 9:Very dark green nearly black		
4	Leaf pigmentation	10 plants	Observation	0:Absent 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Much 7:Very much	By anthocyanin	
5	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		
6	Petiole/midrib width	10 plants	Observation	1:Extremely narrow 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide	At the widest site	
7	Number of leaves	10 plants	Observation	3:Very few 4:Few 5:Intermediate 6:Many 7:Very many	Except tiller type	

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1	Leaf length	10 plants	Observation	3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		Of the largest leaf
2	Number of lobes in leaves	10 plants	Observation	0:None 1:Almost none 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely numerous		
3	Width of lobe in leaf	10 plants	Observation	3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		
4	Leaf dentation	10 plants	Observation	0:None 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Much 7:Very much		
5	Leaf glossiness	10 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		
6	Leaf wax	10 plants	Observation	3:Very little 4:Little 5:Intermediate 6:Much 7:Very much		
7	Leaf hair	10 plants	Observation	0:Absent 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Much 7:Very much		
8	Leaf undulation	10 plants	Observation	0:Absent 1:Almost none 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Much 7:Very much		
9	Number of leaflets	10 plants	Observation	0:Absent 1:Extremely few 2:Very few 3:Few 4:Slightly few 5:Intermediate 6:Many 7:Very many		
10	Leaf thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		
11	Petiole or midrib thickness	10 plants	Observation	3:Thin 4:Slightly thin 5:Intermediate 6:Slightly thick 7:Thick		At the largest part, vertical section
12	Petiole or midrib shape	10 plants	Observation	3:Flat 4:Slightly flat 5:Intermediate 6:Slightly round 7:Round		
13	Petiole or midrib veins	10 plants	Observation	3:Very few 4:Few 5:Intermediate 6:Many 7:Very many		

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
14	Petiole or midrib twisting	10 plants	Observation	0:Absent 3:Very slight 4:Slight 5:Intermediate 6:Prominent 7:Very prominent		
15	Petiole or midrib color	10 plants	Observation	1:White 2:Very pale green 3:Pale green 4:Slightly pale green 5:Green 6:Slightly pale purple 7:Pale purple 8:Purple 9:Dark purple		On abaxial surface
16	Petiole length	10 plants	Observation	0:Absent 1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long		
17	Petiole overlap	10 plants	Observation	3:Very little 4:Little 5:Intermediate 6:Much 7:Very much		
18	Width of petiole or midrib base	10 plants	Observation	1:Extremely narrow 2:Very narrow 3:Narrow 4:Slightly narrow 5:Intermediate 6:Slightly wide 7:Wide		
19	Tillering	10 plants	Observation	0:No tillers 9:Tillering		
20	Enlargement of tap root	10 plants	Observation	0:Absent 1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large		
21	Time of maturity	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		Quickness of growth
22	Bolting	10 plants	Observation	3:Early 4:Slightly early 5:Intermediate 6:Slightly late 7:Late		By natural occurrence
23	Heading	10 plants	Observation	0:Non-heading 9:Heading		

Plant		Broad-leaved mustard		76(08015)	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	By natural occurrence or artificial inoculation	
2	Soft rot resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation	
3	Virus resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High	By natural occurrence or artificial inoculation	

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No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Downy mildew resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
2	Verticillium yellows resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence or artificial inoculation
3	Diamondback moth resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
4	Aphid resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
5	Green catapillar resistance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		By natural occurrence
6	Cold tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate by the degree of cold injury
7	Heat tolerance	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate by the degree of stunting under high temperature
8	Adaptability to hot season cropping	30 plants	Observation	3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High		Evaluate by the feasibility of high quality production in hot season

Plant		Broad-leaved mustard		76(08015)	Tertiary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks	
1	Plant weight	10 plants	Observation	3:Light 4:Slightly light 5:Intermediate 6:Slightly heavy 7:Heavy	Per one plant	
2	Pungency	3 plants	Sensory	0:Absent 1:Extremely weak 2:Very weak 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong	By biting fresh leaves	
3	Quantity of pungent element	10 plants	Sensory	3:Little 4:Slightly little 5:Intermediate 6:Slightly much 7:Much	By biting seeds	

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks	
1	Pungency of seed	10 plants	Sensory	0:Absent 3:Weak 4:Slightly weak 5:Intermediate 6:Slightly strong 7:Strong		
2	Suitability to for light pickling	10 plants	Sensory	0:Unsuitable 9:Suitable		
3	Taste	10 plants	Sensory	3:Bad 4:Slightly bad 5:Intermediate 6:Slightly good 7:Good		