

Dutch Board for Plant Varieties

Simplified standard protocol for *Brassica juncea* L. (NAKT_MSB04)

Botanical taxon:	<i>Brassica juncea</i> L.	
Common Name (when known):	Bladmosterd (NL); Brown Mustard (EN)	
Date of preparation of TP:	2004	
TP data prepared by:	W. Sangster	
Sample to be examined	Seed	
Number of growing cycles:	2 years	
Closing date for applications:		
- Vegetable varieties:	15-01	
- Agricultural varieties:	01-07	
Submission date/period:		
- Vegetable varieties:	01-02	
- Agricultural varieties:	01-08	
Seed/Plant Quantity		
- Vegetable varieties:	5000 seeds	
- Agricultural varieties:	5000 seeds	
Seed /Plant Quality		
- Vegetable varieties:	Minimum germination rate 75% after 10 days.	
- Agricultural varieties:	Minimum germination rate 75% after 10 days.	
Special conditions sample:		
- Vegetable varieties:	not appl.	
- Agricultural varieties:	not appl.	
Test station address:	Naktuinbouw, Sotaweg 22, 2371 GD Roelofarendsveen	
Name/Email/Tel./Contact person	Wim Sangster, + 31(0)71 3326124, w.sangster@naktuinbouw.nl	
List of grouping characteristics	Yes, (if yes put as annex)	
Minimum number of plants in trial		
- Vegetable varieties:	vegetative: not appl.	seed: 40
- Agricultural varieties:	vegetative: not appl.	seed: 90
Minimum number of plants observed by measuring or counting:		
- Vegetable varieties:	vegetative: not appl.	seed: 20
- Agricultural varieties:	vegetative: not appl.	seed: 60
Give description of when/where observations on the leaf should take place:	at fully grown plants	
Give description of when/where the other observations should take place:	from start bolting to start flowering	
Test will take place		
- Vegetable varieties:	Greenhouse	
- Agricultural varieties:	Outdoor	

Uniformity:

Annex I: grouping characteristics (NAKT_MSB04)

Characteristic	Expression	Note
10 Leaf blade: anthocyanin coloration	absent	1
	present	9
14 Leaf blade: lobes (division to midrib)	absent	1
	present	9

Annex II: Table of characteristics Brassica juncea L. (NAKT_MSB04)

Characteristic	Expression	Note
1 Only for agricultural varieties: Ploidy	diploid	2
	tetraploid	4
2 Seedling: anthocyanin coloration of hypocotyl	absent	1
	present	9
3 Cotyledon: size	very small	1
	small	3
	medium	5
	large	7
	very large	9
4 Leaf: attitude	erect	1
	erect to semi-erect	2
	semi-erect	3
	semi-erect to horizontal	4
	horizontal	5
5 Leaf: length	very short	1
	short	3
	medium	5
	long	7
	very long	9
6 Leaf: width	very narrow	1
	narrow	3
	medium	5
	broad	7
	very broad	9
7 Leaf blade: shape of apex	acute	1
	rounded	2
8 Leaf blade: hue of green colour	absent	1
	yellowish	2
	greyish	3
9 Leaf blade: intensity of green coloration	very light	1
	light	3
	medium	5
	dark	7
	very dark	9
10 Leaf blade: anthocyanin coloration	absent	1
	present	9
11 Leaf blade: intensity of anthocyanin coloration	very light	1
	light	3
	medium	5
	dark	7
	very dark	9
12 Leaf blade: distribution of anthocyanin	localised	1
	entire	2
13 Leaf blade: kind of anthocyanin distribution	diffused only	1
	in spots only	2
	diffused and in spots	3
14 Leaf blade: lobes (division to midrib)	absent	1
	present	9

15	Leaf blade: number of lobes	very few	1
		few	3
		medium	5
		many	7
		very many	9
16	Leaf blade: size of terminal lobe	very small	1
		small	3
		medium	5
		large	7
		very large	9
17	Leaf blade: undulation of margin	absent or very weak	1
		weak	3
		medium	5
		strong	7
		very strong	9
18	Leaf blade: depth of incision of margin	very shallow	1
		shallow	3
		medium	5
		deep	7
		very deep	9
19	Leaf blade: blistering	absent or very weak	1
		weak	3
		medium	5
		strong	7
		very strong	9
20	Leaf blade: hairiness of upper side	absent or very weak	1
		weak	3
		medium	5
		strong	7
		very strong	9
21	Leaf blade: width of midrib	very narrow	1
		narrow	3
		medium	5
		broad	7
		very broad	9
22	Leaf blade: anthocyanin coloration of main vein	absent	1
		present	9
23	Leaf blade: anthocyanin coloration of secondary veins	absent	1
		present	9
24	Petiole: anthocyanin coloration	absent	1
		present	9
25	Petiole: intensity of anthocyanin coloration	very weak	1
		weak	3
		medium	5
		strong	7
		very strong	9
26	Flower: colour	white	1
		yellow	2
27	Time of harvest maturity	very early	1
		early	3
		medium	5
		late	7
		very late	9
28	Time of beginning of bolting	very early	1
		early	3
		medium	5
		late	7
		very late	9