

Online Resource 2

Article title: Genomic prediction of starch content and chipping quality in tetraploid potato using genotyping-by-sequencing

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List of cultivars in test panel

The following is a list of the cultivars and breeding clones selected for the test panel in the genomic selection project. The cultivars were grown, harvested and phenotyped over a number of years at the breeding station in Vandel, Denmark. The phenotypic data for chipping quality and starch content is listed as the mean over several years and replicates (raw average) and as the mean of corrected phenotypic data.

Cultivar	Chipping quality [scale 1-9]		Starch content [%]	
	Raw average	Corrected	Raw average	Corrected
00-DLS-1	5.5	4.99	22.24	23.4
01-EAZ-4	NA	NA	22.43	22.98
02-EMC-9	NA	NA	21.98	22.85
02-ENU-5	6	4.49	22.88	23.93
03-GAE-4	NA	NA	22.56	23.91
05-DLG-26	NA	NA	20.56	22.41
05-GUK-3	5.5	4.28	17.8	19.23
05-GUR-1	4.5	3.08	21.36	22.85
06-ECI-7	NA	NA	22.35	23.83
06-LDP-1	4.5	4.03	21.77	23.09
06-LEE-4	4	3.54	22.19	23.63
06-LEK-4	4.5	4.03	22.6	24
07-LPL-3	NA	NA	21.44	22.89
07-LPW-4	5.67	5.29	22.29	23.79
08-GJY-24	4.5	4.53	22.57	23.86
08-LWK-1	NA	NA	23.85	25.16
08-LWZ-1	NA	NA	23.06	24.39
08-LXB-1	NA	NA	20.82	22.1
08-LXB-10	NA	NA	21.8	23.1
08-LXC-3	NA	NA	21.6	22.96
08-LXC-4	NA	NA	21.01	22.37
08-LXD-2	NA	NA	21.65	23.03
08-LXE-2	NA	NA	21.73	23.02
08-LXJ-5	NA	NA	23.29	24.68
08-LZH-3	NA	NA	20.54	21.81
08-LZK-1	6	4.82	21.07	22.44
08-MAK-06	3	1.82	20.65	22.01
08-MAK-07	3	1.82	19.09	20.43
08-MAW-02	NA	NA	21.58	22.98
09-0-192-04	4.33	NA	17.61	19
09-GUT-23	2	0.82	23.47	24.95
09-GUT-25	NA	NA	23.19	24.68
09-LPV-6	NA	NA	22	23.48
09-MDI-7	NA	NA	21.26	22.71
09-MDP-12	NA	NA	22.04	23.51

09-MDP-6	NA	NA	21.75	23.21
09-MDP-9	NA	NA	23.12	24.6
09-MFD-6	5	4.62	21	22.45
93-CAG-1	4	4.43	21.13	22.06
93-CAL-3	3.5	3.93	19.51	20.71
96-BQD-56	NA	NA	22.01	22.78
Artana	NA	NA	20.41	21.48
Bonanza	6	5.81	19.66	21.45
Bruse	4	NA	18.12	19.14
Camel	2.25	NA	11.81	13.5
Canasta	5	3.98	20.98	22
Centaure	NA	NA	18.15	19.36
Danva	5	4.37	20.75	21.5
Festien	NA	NA	20.47	21.35
Jumbo	NA	NA	22.21	21.66
Karakter	NA	NA	18.69	20.13
Kardal	4.5	3.87	21.26	22.41
Magnum Bonum	NA	3.86	15.26	16.42
Odin	5	3.58	21.55	22.65
Oleva	4.4	3.95	18.89	19.97
Posmo	5	4.37	20.7	21.58
Ramses	NA	NA	20.11	20.63
Sa90-47-97	NA	NA	15.4	16.34
Seresta	4	2.49	21.87	22.65
Thor	4	3.53	23.16	24.55
Tidlig Rosen	NA	3.2	16.02	17.26
Wotan	4	3.53	22.65	24.03
Ydun	3.5	3.15	24.03	25.62