

BMT/11/10 Rev. Add. ORIGINAL: English DATE: October 9, 2008 INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

WORKING GROUP ON BIOCHEMICAL AND MOLECULAR TECHNIQUES AND DNA PROFILING IN PARTICULAR

Eleventh Session Madrid, September 16 to 18, 2008

ADDENDUM

CONSTRUCTION OF AN INTEGRATED MICROSATELLITE AND KEY MORPHOLOGICAL CHARACTERISTIC DATABASE OF POTATO VARIETIES ON THE EU COMMON CATALOGUE PART 2: THE DATABASE (REVISED)

Document prepared by experts from the United Kingdom







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The Information Table

The structure of the Access database was specifically designed so that it could serve BioNumerics

BioNumerics requires each entry to have a unique identifier or Key

The variety name could not be used for the DNA samples as some varieties had samples from numerous sources

For example cv. Ditta had samples submitted for SSR analysis from the Netherlands, Poland and the UK and therefore the DNA sample codes were used as the Key (in this case NL-089, PL-021 and UK-0598)

There is only one entry per country for the morphological data for a variety and in these cases the Key is the variety name followed by the country of origin (e.g. Ditta_DE, Ditta_NL, Ditta_PL and Ditta_UK)

-SASA	Da Sottein Devertigent
The Information Table	Fields
Key	Unique identifier for use in BioNumerics
Variety Denomination	The name of the variety
Origin of sample e.g. Breeder (B), office (O) or other (T)	Where the sample was obtained from either the breeder or from one of the partners collections or from another source
Submitting office (S SASA, B BSA, C COBORU, N Naktuinbouw)	The office which submitted the sample for DNA analysis or submitted the morphological description
Harvest year	The year the sample analyzed was harvested
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-XSASA	The south pre-
The Information Table	Fields
DNA extraction laboratory (S SASA, N Naktuinbouw)	The laboratory the DNA sample was extracted (either UK or Netherlands)
Extraction year	The year the DNA extraction was made
Place of storage of DNA sample (S SASA, N Naktuinbouw)	The place where the DNA sample is kept in long term storage
SSR analysis performed at (S SASA, N Naktuinbouw)	The laboratory where the SSR analysis was performed
SSR analysis year	The year the SSR analysis was performed
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-XSASA	Pol official to
The Information Table	Fields
Technical protocol used for morphological description	The technical protocol used for the morphological description (if known)
Description year (either before 1995 or actual year)	The year that the latest description was carried out, N.B. not necessarily from official description
Place description carried out	The office the description was carried out at
Photograph availability (and link to photograph)	The file name for the photograph (if available) and hyperlink
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Key Variety denomination STMS S STMS S All mark D-207 DE Bind Test 1 C 100 Ku 100 K 100 Fr 100 Fr 100 D-208 DE Bind Test 2 (C 100 (Fr 100 Fr 100 D-209 DE Bind Test 3 (A 100 (C 100 (D 100		Unknowns Matches	
• D-207 DE Blind Test 1 (S. 100 Ku. 100 K 100 K 100 • D • D-208 DE Blind Test 2 (E 100 (Fr. 100 Fr 100 • D • D-209 DE Blind Test 3 (C 100 (Fr. 100 B 100 • D-210 DE Blind Test 4 (C 100 D 100 D-211 DE Blind Test 5 (C 100 D 100 E D-212 DE Blind Test 7 (C 100 E 100 D D		Key Variety denomir 🚽 STMS 5 STMS SS All mark	
→ 208 DE Blind Test 2 (E 100 (Fr 100 E 100 Fr 100 → D-200 DE Blind Test 3 (G 100 (Fr 100 E 100 E 100 → D-201 DE Blind Test 3 (G 100 E 100 E 100 E 100 → D-211 DE Blind Test 4 (C 100 (G 100 E 100 → D-213 DE Blind Test 8 (R 100 (D 100 D-213 DE Blind Test 8 (R 100 T 100 → D-214 DE Blind Test 8 (R 100 (D 100 S 100 → D-215 DE Blind Test 8 (R 100 (D 100 S 100 → D-216 DE Blind Test 8 (R 100 (P 100 P 100 → D-216 DE Blind Test 8 (P 100 P 100 P 100 D-216 DE Blind Test 8		D-207 DE Blind Test 1 (S 100 Ku 100 K 100 ^	
• D-200 DE Blind Test 3 (A 100 (Fr 100 E 100 • D-210 DE Blind Test 4 (D 100 L 100 D 100 E 100 • D-211 DE Blind Test 5 (M 100 (O 100 C 100 E 100 • D-212 DE Blind Test 5 (R 100 (D 100 R 100 E 100 • D-213 DE Blind Test 7 (100 (U 100 T 100 E 100 • D-214 DE Blind Test 7 (100 (U 100 S 100 E 100 • D-215 DE Blind Test 7 (100 (U 100 S 100 E 100 • D-215 DE Blind Test 7 (U 100 (U 100 F 100 E 100 • D-215 DE Blind Test 9 (U 100 U 100 F 100 E 100 • D-216 DE Blind Test 9 (U 100 U 100 F 100 F 100 • Details for D-207 / All markers E 69.9 E 69.9 E 69.9 E 69.9 J		D-208 DE Blind Test 2 (E 100 (Fr 100 Fr 100	
• D-210 DE Blind Test 4 (D 100 (La 100 D 100 • D-211 DE Blind Test 5 (V 100 (O 100 R 100 • D-212 DE Blind Test 7 (C 100 (UI 100 T 100 • D-213 DE Blind Test 7 (C 100 (UI 100 T 100 • D-214 DE Blind Test 8 (R 100 (UI 100 S 100 • D-214 DE Blind Test 7 (C 100 (UI 100 T 100 • D-215 DE Blind Test 7 (C 100 (UI 100 F 100 • D-214 DE Blind Test 8 (R 100 (D 100 P 100 • D-215 DE Blind Test 9 (R 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (B 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • D-216 DE Blind Test 9 (P 100 (D 100 P 100 • O_0 • O_0 • O_0 • O_0 • O_0 • O_0		D-209 DE Blind Test 3 (A 100 (Fr 100 El 100	
• D-212 DE Bind Test 5 (V 100 (O 100 C 100 • D-213 DE Bind Test 7 (100 (U 100 T 100 • D-213 DE Bind Test 7 (100 (U 100 T 100 • D-214 DE Bind Test 8 (B 100 (U 100 T 100 • D-215 DE Bind Test 8 (B 100 (D 100 F 100 • D-215 DE Bind Test 9 (A 100 (D 100 F 100 • D-215 DE Bind Test 9 (A 100 (B 100 F 100 • D-215 DE Bind Test 9 (A 100 (B 100 F 100 • D-216 DE Bind Test 9 (A 100 (B 100 F 100 • D-216 DE Bind Test 9 (A 100 (B 100 F 100 • D-216 DE Bind Test 9 (A 100 (B 100 F 100 • D-216 DE Bind Test 9 (C 100 (B 100 F 100 • D-216 DE Bind Test 9 (C 100 (B 100 F 100 • D-216 DE Bind Test 9 (C 100 (B 100 F 100 • O_0 60.2 (D 100 (D 100 (D 100 • O_0 60.3 (D-210 DE Blind Test 4 (D 100 (La 100 D 100	
• D-213 DE Bind Test 7 (100 (100 T 100 • D-214 DE Bind Test 8 (100 (100 T 100 • D-214 DE Bind Test 8 (100 (100 T 100 • D-215 DE Bind Test 8 (100 (D 100 Pr 100 • D-215 DE Bind Test 10 (Pi 100 (D 100 Pr 100 • D-216 DE Bind Test 10 (Pi 100 (B 100 Pi 100 • D-216 DE Bind Test 10 (Pi 100 (B 100 Pi 100 • Detrifs for D-207 / All markers • • • • Score Normalized distan • • • • Ku 100 • • • • • Qp 70.0 • • • • • Quark Average sinialerty • • • • •		D-211 DE Blind lest 5 (V 100 (O 100 C 100 D 212 DE Blind Test 6 (P. 100 (D. 100 P. 100	
D-214 DE Blind Test 8 (B 100 C 100 S 100 D-215 DE Blind Test 9 (A 100 (D 100 Pr 100 D-216 DE Blind Test 9 (A 100 (D 100 Pr 100 C D Score Normalized distan V Ku 100 Am 80.2 V Op 70.0 On 69.3 V Ito unknowns Average similarity V V		D.213 DE Blind Test 7 (100 (U 100 T 100	
▶ D-215 DE Blind Test 9 (A 100 (D 100 Pr 100 ▶ D-216 DE Blind Test 10 (Pl 100 (B 100 Pl 100 ▼ ▼ ▼ ▼ ▼ Details for D-207 / All markers ▼ ▼ ▼ Score Normalized distan ▼ ▼ Ku 100 ▼ ▼ Am 800.2 ● ● Op 70.0 ● ● Ch 69.3 ▼ ● I00 unknowns Average similarity ■		♦ D-214 DE Blind Test 8 (B., 100 (M., 100 S., 100 -	
▶ D-216 DE Bind Test 10 (Pi 100 (B 100 Pi 100) ▼ ▼ ▼ ▶ ▼ ▼ ▶ ■ ■ ▶ <td></td> <td>→ D-215 DE Blind Test 9 (A 100 (D 100 Pr 100</td> <td></td>		→ D-215 DE Blind Test 9 (A 100 (D 100 Pr 100	
Score Normalized distan Ku 100 Am 60.2 Ope 70.0 Ch 69.9 Ja 69.3 Vanter Vanter		D-216 DE Blind Test 10 (Pi 100 (B 100 Pi 100	
Score Normalized distan Ku 100 Am 80.2 Op 70.0 Ch 69.9 Ja 69.3			
Score Normalized distan Image: Control of the state of the sta		Details for 0.207 / All markers	
Ku 100 Am 80.2 Op 70.0 Ch 69.9 Ja 69.3 V 10 unknowns		Score Normalized distan	
Am 80.2 Op 70.0 Ch 69.9 Ja 69.3 10 unknowns Average similarity		Ки 100 🔨	
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Ch 69.9 Ja 69.3 10 unknowns Average similarity		Op 70.0	
10 unknowns Average similarity		Ch 69.9	
TU UNKTOWNS AVerage similarity			
		10 unknowns Average similarity	







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