

Table S2. Field trials of PCR-positive transformant lines of naturally-infected potato cultivars

Cultivar (virus infection before transformation)	Line #	Construct used for transformation	Virus detection by ELISA		
			2017	2018	2019
Albinka (PVM + PVY)	Non transformed parent	-	PVM	PVY	PVM PVY
	39	S-25K-AS	PVY	PVY	PVY
	43	S-25K-AS	-	*	*
	46	S-25K-AS	-	PVY	PVY
	47	S-25K-AS	PVY	*	*
	48	S-25K-AS	PVM PVY	PVY	PVY
	74	S-25K-AS	PVY	PVY	PVS PVM PVY
	159	S-25K-AS	PVY	PVY	*
Dunyasha (PVM)	218	S-25K-AS	PVM PVY	*	*
	Non transformed parent	-	-	PVM	PVM PVY
	44	S-25K-AS	-	-	PVY
	61	S-25K-AS	PVM	-	-
	62	S-25K-AS	-	-	PVY
	65	S-25K-AS	PVM	-	PVY
	67	S-25K-AS	-	-	PVY
	146	AS-CP-S	-	-	-
	162	AS-CP-S	-	-	-
	293	AS-CP-S	PVM	-	PVS
	294	AS-CP-S	-	-	-
Fortuna (PVS + PVM)	312	AS-25K-S	-	-	PVM
	374	AS-25K-S	PVM	-	PVY
	Non transformed parent	-	*	PVS	PVS
	309	AS-CP-S	PVS	PVS	PVS
	360	AS-CP-S	-	-	-
Kormilitsa (PVS)	361	AS-CP-S	PVS PVY	PVS	-
	Non transformed parent	-	*	*	*
Picasso (PVM + PVY)	103	S-25K-AS	-	-	-
	Non transformed parent	-	*	*	*
	192	AS-CP-S	PVY	PVY	PVY
	194	AS-25K-S	PVM	PVY	PVY
	257	AS-CP-S	-	-	PVY
	351	AS-25K-S	PVM PVY	PVY	PVY
	161	AS-CP-S	PVM	*	*
	172	AS-CP-S	PVY	*	*
	352	AS-25K-S	PVM PVY	*	*
	381	AS-25K-S	PVY	*	*
	382	AS-25K-S	-	*	*
	383	AS-25K-S	PVM	*	*
	384	AS-25K-S	-	*	*
Sante (PVM + PVY)	Non transformed parent	-	PVM	PVM PVY	PVY
	295	AS-CP-S	PVM	PVS PVY	PVY
	291	AS-CP-S	-	*	*
	339	AS-CP-S	PVM	*	*
Zeren (PVS + PVM + PVY)	Non transformed parent	-	*	*	PVS PVY
	38	S-25K-AS	PVS PVY	PVS PVY	PVS PVY
	59	S-25K-AS	PVS PVY	PVS PVY	PVS PVY
	119	S-25K-AS	-	PVY	PVY
	336	AS-25K-S	-	-	PVY
	344	AS-25K-S	PVS	PVS PVY	PVS PVY
Triumph	Non transformed	-	-	PVM PVY	PVM PVY
Imperatrissa	Non transformed	-	PVM	*	*
Milena	Non transformed	-	PVM	PVM PVY	PVM PVY
* not detected, because the plant died, or no tuber obtained in the previous season					
- virus free					