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Table S1. **Pilot study for protoplasting enzyme cocktail.** Various conditions for each enzyme combination were tested mostly in single replicates.

Organism	Enzyme	Buffer composition	Temperature	Incubation time	Yield	Reference
U. maydis	12,5 mg/mL Glucanex	0,02 M citrat-Puffer, 1 M sorbitol	RT	2 h	-	Bösch et al 2016
U. maydis	100 mg/mL Glucanex	0,02 M citrat-Puffer, 1 M sorbitol	RT	2 h	-	Bösch et al 2016
U. maydis/ *A. niger*	20 mg/mL Glucanex 0,015 U/mL Chitinase	0,02 M citrat-Puffer, 1 M sorbitol	RT	up to 20 h	-	Bösch et al 2016, de Bekker et al 2009
U. maydis/ *A. niger*	20 mg/mL Glucanex 0,3 U/mL Chitinase	0,02 M citrat-Puffer, 1 M sorbitol	RT	2 h	+/-	Bösch et al 2016, de Bekker et al 2009
S. indica	20 mg/mL Glucanex	0,02 M MES, 0,05 M CaCl2, 1,33 M sorbitol	RT, 28°C, 37°C	up to 5h	-	Zuccaro et al 2009
S. indica	100 mg/mL Glucanex	0,02 M MES, 0,05 M CaCl2, 1,33 M sorbitol	RT, 28°C, 37°C	up to 5 h	-	Zuccaro et al 2009
U. bromivora	10 mg/mL Glucanex 5 mg/mL Yatalase	0,02 M MES, 1 M MgSO4	RT	up to 1,5 h	-	Rabe et al 2016
U. bromivora	**20 mg/mL Glucanex 10 mg/mL Yatalase**	**0,02 M MES, 1 M MgSO4**	**RT**	**up to 1,5 h**	**+**	**Rabe et al 2016**