

Table S2. The data set of culture media composition and the conditions used in screening for *Trichoderma* isolates sporulation. Abbreviations: Potato Dextrose Agar (PDA), Malt Extract Lab Agar (MEA), Corn Meal with glycerol (CM), modified Mandels and Andreotti with agar (MA), soy flour, cellulose, lactose agar medium (MSCL-A), yeast and malt extract minimal agar medium (TR), minimal agar medium with cellulose (MN), wheat bran and apple pomace agar medium with supplements (WBAP-A), wheat bran and apple pomace agar medium with CaCl₂ and KH₂PO₄ (WBAP-B), wheat bran and apple pomace agar medium with microcrystalline cellulose and soy flour (WBAP-C), wheat bran and apple pomace agar medium with microcrystalline cellulose, soy flour, CaCl₂ and KH₂PO₄ (WBAP-D), wheat bran and apple pomace medium (WBAP-E), wheat bran and apple pomace medium with grounded straw and microcrystalline cellulose (WBAP-F), wheat bran, and apple pomace medium with microcrystalline cellulose (WBAP-G), wheat bran and apple pomace medium with pine sawdust (WBAP-H), liquid medium based on soy flour, cellulose, lactose (MSCL-L).

Agar medium							
MSCL-A		TR		MN		MA	
Lactose	17.5 g/l	Glucose	10 g/l	(NH ₄) ₂ SO ₄	3 g/l	(NH ₄) ₂ SO ₄	1.4 g/l
Microcrystalline cellulose	11.8 g/l	KH ₂ PO ₄	11 g/l	KH ₂ PO ₄	1 g/l	KH ₂ PO ₄	2.0 g/l
Soy flour	17.5 g/l	Yeast extract	5 g/l	MgSO ₄ x 7H ₂ O	5 g/l	MgSO ₄ x 7H ₂ O	0.3 g/l
KH ₂ PO ₄	6.3 g/l	Malt extract	30 g/l	Yeast extract	5 g/l	CaCl ₂ x 2H ₂ O	0.3 g/l
(NH ₄) ₂ SO ₄	9.92 g/l	Agar	20 g/l	Microcrystalline cellulose	20 g/l	Urea	0.3 g/l
CaCl ₂	1.64 g/l	pH	5	Agar	20 g/l	Casein peptone	1.0 g/l
MgSO ₄ x 7H ₂ O	0.82 g/l	Spores inoculum	10 ²	pH	5	Glucose	10 g/l
Tween 80	0.15%	Temperature	26°C	Spores inoculum	10 ²	Micronutrient solution	20 ml/l
Antifoam B	5 ml/l			Temperature	26°C	FeSO ₄ x 7H ₂ O	250 mg/l
Micronutrient solution	20 ml/l					MnSO ₄ x H ₂ O	80 mg/l
FeSO ₄ x 7H ₂ O	513 mg/l					ZnSO ₄ x 7H ₂ O	70 mg/l
MnSO ₄ x H ₂ O	166 mg/l					Agar	20 g/l
ZnSO ₄ x 7H ₂ O	8.5 mg/l					pH	5
CoCl ₂ x 6H ₂ O	204 mg/l					Spores inoculum	10 ²
Agar	35 g/l					Temperature	26°C
pH	5						
Spores inoculum	10 ²						
Temperature	26°C						
WBAP-A		WBAP-B		WBAP-C		WBAP-D	
Wheat bran Durum	7 g/l	Wheat bran Durum	7 g/l	Wheat bran Durum	7 g/l	Wheat bran Durum	7 g/l
Dried apple pomace	14 g/l	Dried apple pomace	14 g/l	Dried apple pomace	14 g/l	Dried apple pomace	14 g/l
Whey protein concentrate	5 g/l	Whey protein concentrate	5 g/l	Whey protein concentrate	5 g/l	Whey protein concentrate	5 g/l
Saccharose	1 g/l	Saccharose	1 g/l	Saccharose	1 g/l	Saccharose	1 g/l

Glucose	1 g/l	Glucose	1 g/l	Glucose	1 g/l	Glucose	1 g/l
(NH ₄) ₂ HPO ₄ 1%	15 ml/l	(NH ₄) ₂ HPO ₄ 1%	15 ml/l	(NH ₄) ₂ HPO ₄ 1%	15 ml/l	(NH ₄) ₂ HPO ₄ 1%	15 ml/l
Micronutrient solution	10 ml/l	CaCl ₂	1.6 g/l	Microcrystalline cellulose	11.67 g/l	CaCl ₂	1.6 g/l
FeSO ₄ x 7H ₂ O	250 mg/l	KH ₂ PO ₄	6.3 g/l	Soy flour	17.5 g/l	KH ₂ PO ₄	6.3 g/l
MnSO ₄ x H ₂ O	80 mg/l	Micronutrient solution	10 ml/l	Micronutrient solution	10 ml/l	Soy flour	17.5 g/l
ZnSO ₄ x 7H ₂ O	70 mg/l	FeSO ₄ x 7H ₂ O	250 mg/l	FeSO ₄ x 7H ₂ O	250 mg/l	Microcrystalline cellulose	11.67 g/l
Adenosine	1.6 g/l	MnSO ₄ x H ₂ O	80 mg/l	MnSO ₄ x H ₂ O	80 mg/l	Micronutrient solution	10 ml/l
Adonitol	1.6 g/l	ZnSO ₄ x 7H ₂ O	70 mg/l	ZnSO ₄ x 7H ₂ O	70 mg/l	FeSO ₄ x 7H ₂ O	250 mg/l
Arabitol	1.6 g/l	Agar	35 g/l	Agar	35 g/l	MnSO ₄ x H ₂ O	80 mg/l
Erythritol	1.6 g/l	pH	5	pH	5	ZnSO ₄ x 7H ₂ O	70 mg/l
Mannitol	1.6 g/l	Spores inoculum	10 ²	Spores inoculum	10 ²	Agar	35 g/l
Sorbitol	1.6 g/l	Temperature	26°C	Temperature	26°C	pH	5
Agar	35 g/l					Spores inoculum	10 ²
pH	5					Temperature	26°C
Spores inoculum	10 ²						
Temperature	26°C						

SOLID-STATE MEDIUM

WBAP-E		WBAP-F		WBAP-G		WBAP-H	
Plastic transparent bag	50 cm x 70 cm	Conical flask	500 ml	Conical flask	250 ml	Conical flask	250 ml
Wheat bran Durum	70 g	Wheat bran Durum	3.5 g	Wheat bran Durum	1.75 g	Wheat bran Durum	1.75 g
Dried apple pomace	14 g	Dried apple pomace	7 g	Dried apple pomace	3.5 g	Dried apple pomace	3.5 g
Whey protein concentrate	50 g	Whey protein concentrate	2.5 g	Whey protein concentrate	1.25 g	Whey protein concentrate	1.25 g
Micronutrient solution	100 ml	Grounded straw	1 g	Microcrystalline cellulose	0.41g	Pine sawdust	0.5 g
FeSO ₄ x 7H ₂ O	250 mg/l	Microcrystalline cellulose	0.275 g	Micronutrient solution	2.5 ml/l	Micronutrient solution	2.5 ml/l
MnSO ₄ x H ₂ O	80 mg/l	Micronutrient solution	5 ml/l	FeSO ₄ x 7H ₂ O	250 mg/l	FeSO ₄ x 7H ₂ O	250 mg/l
ZnSO ₄ x 7H ₂ O	70 mg/l	FeSO ₄ x 7H ₂ O	250 mg/l	MnSO ₄ x H ₂ O	80 mg/l	MnSO ₄ x H ₂ O	80 mg/l
(NH ₄) ₂ HPO ₄	1.5 g	MnSO ₄ x H ₂ O	80 mg/l	ZnSO ₄ x 7H ₂ O	70 mg/l	ZnSO ₄ x 7H ₂ O	70 mg/l
Saccharose	10 g	ZnSO ₄ x 7H ₂ O	70 mg/l	(NH ₄) ₂ HPO ₄	3.75 g	(NH ₄) ₂ HPO ₄	3.75 g
Glucose	10 g	(NH ₄) ₂ HPO ₄	7.5 g	Saccharose	0.25 g	Saccharose	0.25 g
Spores inoculum 70%T	50 ml	Saccharose	0.5 g	Glucose	0.25 g	Glucose	0.25 g
Temperature	22-26°C	Glucose	0.5 g	Spores inoculum	10 ³	Spores inoculum	10 ³

		Spores inoculum	10 ³	Temperature	26°C	Temperature	26°C
		Temperature	26°C				
LIQUID & COMMERCIAL AGAR MEDIUM							
MSCL-L		PDA		CM		MEA	
Conical flask / Medium volume	100 ml / 50 ml						
Lactose	17.5 g/l						
Microcrystalline cellulose	11.8 g/l	Oxoid®	39 g/l	Biomaxima®	17 g/l	Biocorp®	33 g/l
Soy flour	17.5 g/l	Spores inoculum	10 ²	Spores inoculum	10 ²	Spores inoculum	10 ²
KH ₂ PO ₄	6.3 g/l	Temperature	26°C	Temperature	26°C	Temperature	26°C
(NH ₄) ₂ SO ₄	9.92 g/l						
CaCl ₂	1.64 g/l						
MgSO ₄ x 7H ₂ O	0.82 g/l						
Tween 80	0.15%						
Antifoam B	5 ml/l						
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ZnSO ₄ x 7H ₂ O	8.5 mg/l						
CoCl ₂ x 6H ₂ O	204 mg/l						
pH	5						
rpm	150						
Spores inoculum	10 ³						
Temperature	26°C						