

Table S1. Chemical composition of culture media.

Bennett medium	
Glucose	10 g
Yeast extract	1 g
NZ amine (casein digest)	2 g
Beef extract	1 g
Agar	20 g
Distilled water	1000 mL
pH	7.3
Yeast extact malt Extract agar medium	
Yeast extract	3 g
Malt extract	3 g
Glucose	10 g
Peptone	5 g
Agar	20 g
Distilled water	1000 mL
pH	7.2
ISP2 medium	
Yeast extract	4 g
Malt extract	10 g
D-glucose	4 g
Agar	20 g
Distilled water	1000 mL
pH	7.3
ISP7 medium	
Glycerol	15 g
L-asparagine	1 g
K ₂ HPO ₄	0,5 g
NaCl	0,5 g
FeSO ₄ .7H ₂ O	0,01 g
Agar	20 g
Distilled water	1000 mL
pH	7.2
ISP9 medium	
(NH ₄) ₂ SO ₄	2.64 g
KH ₂ PO ₄	2.38 g
K ₂ HPO ₄ 3H ₂ O	5.65 g
MgSO ₄ 2H ₂ O	1 g
Saline solution	1 mL
Agar	20 g
Distilled water	1000 mL
pH	7
MSM medium	
KNO ₃	13.76 g/L
KH ₂ PO ₄	1.78 g/L
Na ₂ HPO ₄ . 2H ₂ O	4.66 g/L
Na ₂ SO ₄	9.68 g/L
EDTA	10 mg/L
FeSO ₄ .7H ₂ O	5 mg/L

MnCl ₂ .4H ₂ O	1.22 mg/L
ZnSO ₄ .7H ₂ O	0.25 mg/L
CuSO ₄ . 5H ₂ O	0.2 mg/L
CaCl ₂ .2H ₂ O	1 mg/L
Na ₂ MoO ₄ .H ₂ O	0.2 mg/L
eau distillée	1000 mL
pH	7.3

Table S2. Cultural characteristics of actinobacterial strains CH, B2, C1, and C3.

		CH	B2	C1	C3
ISP2	Growth	+++	+++	+++	+++
	Colony color	Pink	White	White	White
	Aerial mycelium	Pink	Dark grey	Dark grey	Dark grey
	Substrate mycelium	Light pink	Brown	Brown	Brown
	Pigmentation	Absent	Dark brown	Dark brown	Dark brown
ISP7	Growth	+	+	+	+
	Colony color	Pink	White	White	White
	Aerial mycelium	Pink	Grey	Grey	Grey
	Substrate mycelium	Absent	Brown	Brown	Brown
	Pigmentation	Absent	Dark brown	Dark brown	Dark brown
ISP9	Growth	+	+	+	+
	Colony color	Pink	White	White	White
	Aerial mycelium	White to pink	Light grey	Light grey	White to brown
	Substrate mycelium	Light pink	Brown	Brown	Brown
	Pigmentation	Absent	Dark brown	Dark brown	Dark brown
Bennett	Growth	+++	+++	+++	+++
	Colony color	Pink	White	White	White
	Aerial mycelium	Pink	Dark grey	Dark grey	Dark grey
	Substrate mycelium	Light pink	Brown	Brown	Brown
	Pigmentation	Absent	Dark brown	Dark brown	Dark brown
Yeast extact malt Extract agar	Growth	+++	+++	+++	+++
	Colony color	Pink	White	White	White
	Aerial mycelium	Pink	Dark grey	Dark grey	Dark grey
	Substrate mycelium	Light pink	Brown	Brown	Brown
	Pigmentation	Absent	Dark brown	Dark brown	Dark brown

(+++)^{strong growth}; (+)^{weak growth}.

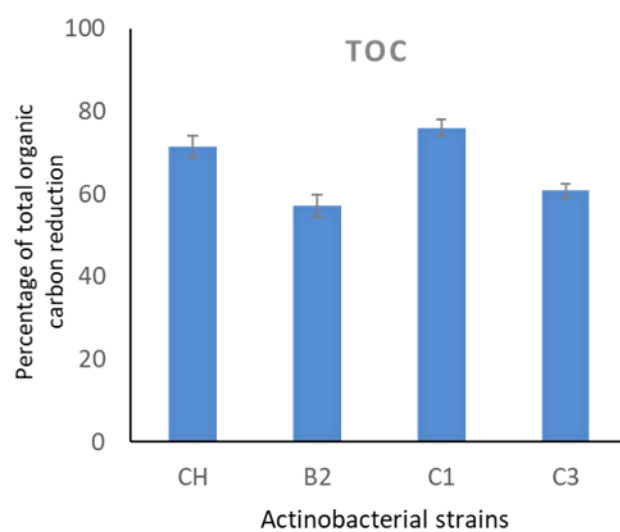


Figure S1. Reduction of total organic carbon TOC by actinobacteria CH, B2, C1, C3 during degradation of 50 mg/L metribuzin over 15 days of incubation.