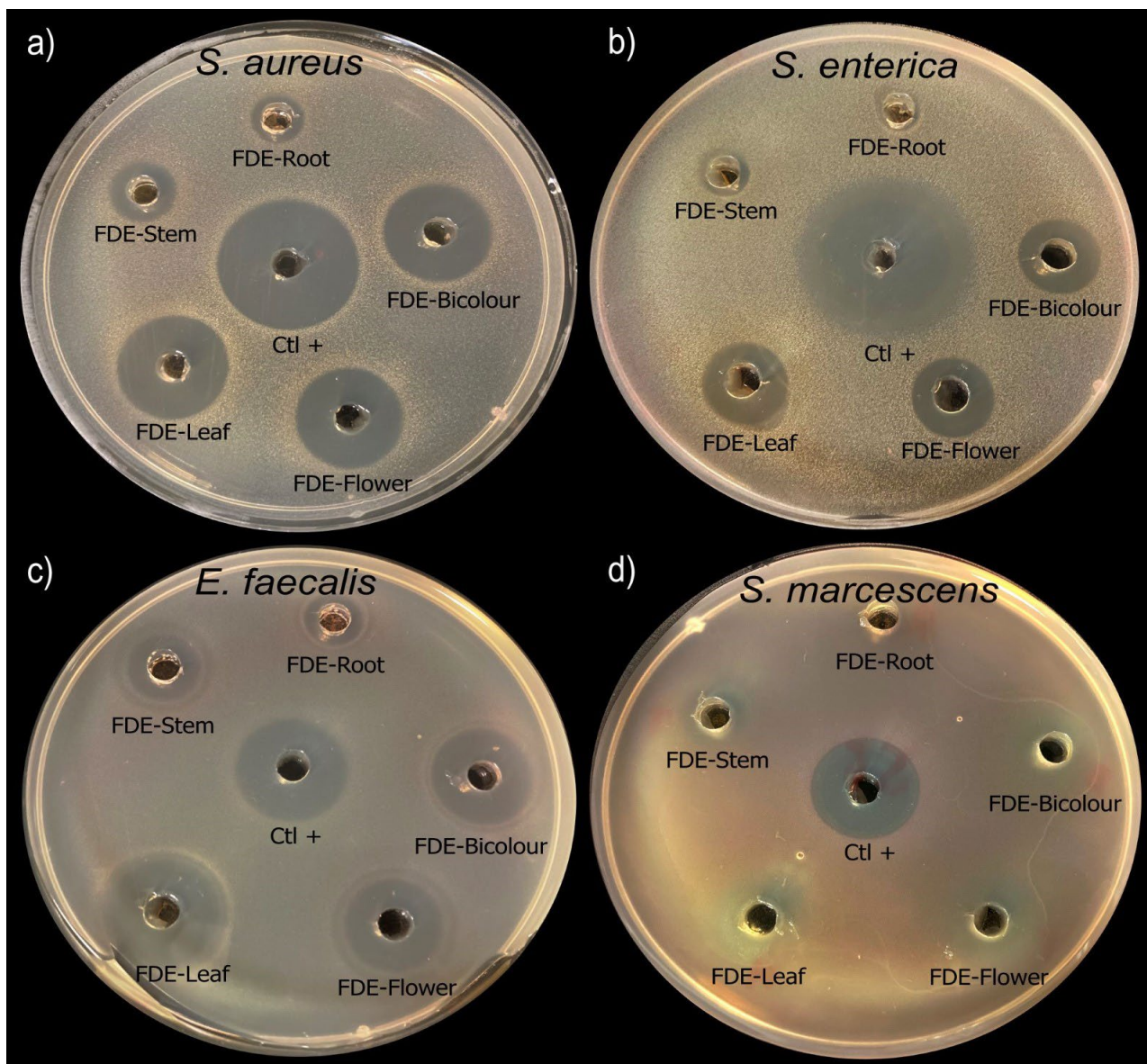
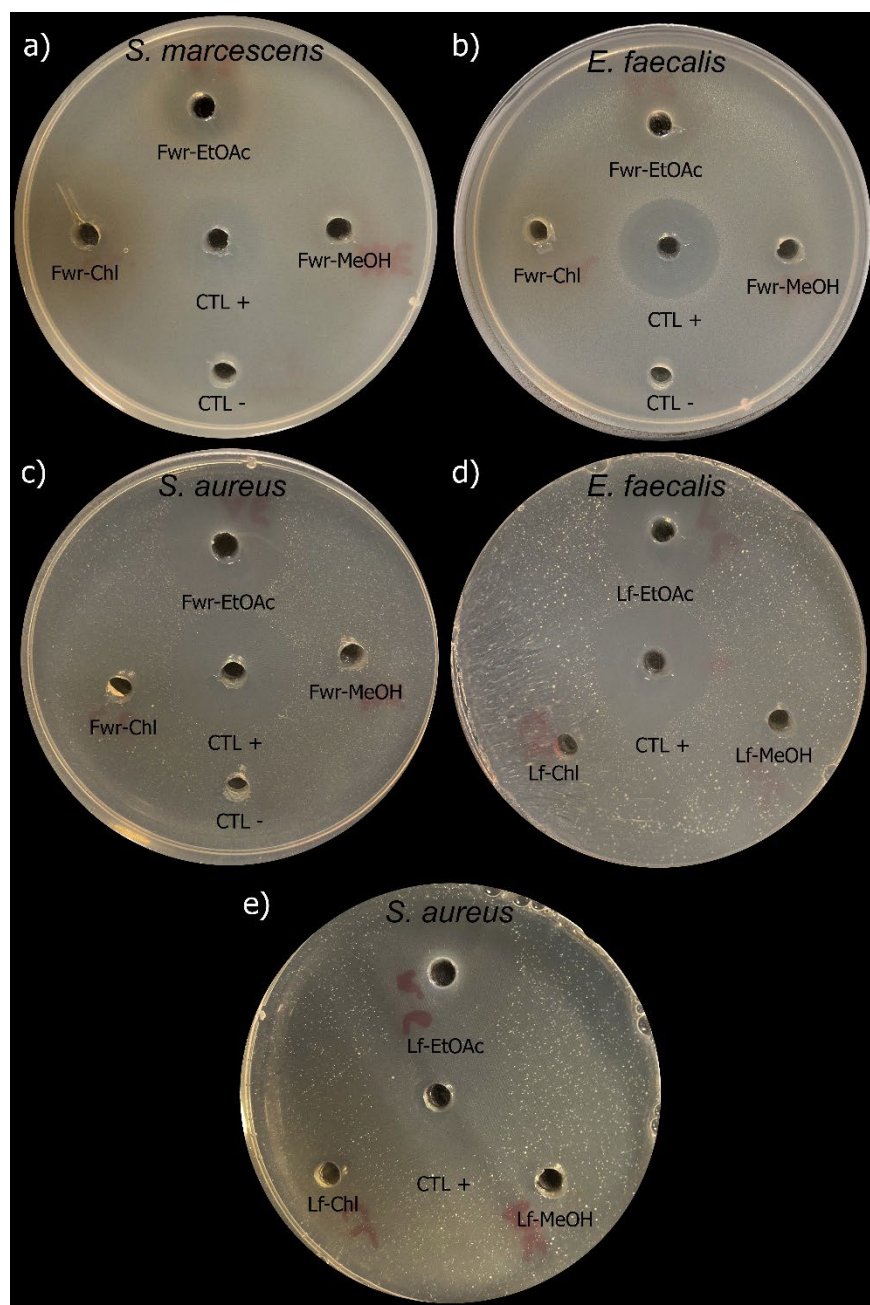


**Figure S1. Thin layer chromatography of Different freeze-dried extracts from *P. peltatum*.** A) TLC visualize by UV light at 366 nm, B) TLC visualize by UV light at 254 nm, C) Tannins revealed by 1%, Ferric chloride D) Flavonoids revealed by 1 % of Aluminum chloride, and E) Reducing Sugars revealed by trichloroacetic acid.



**Figure S2.** Evaluation of the antimicrobial activity of *P. peltatum* FDE against : a) *S. aureus*, b) *S. enterica*, c) *E. faecalis* and d) *S. marcescens*. Ctl+: Kanamycin positive control.



**Figure S3.** Evaluation of the antimicrobial activity of FDE-flowers and FDE-Leaf fractions against a) *S. marcescens*, b) *E. faecalis*, c) *S. aureus*, d) *E. faecalis* and e) *S. aureus*. Ctl+: Kanamycin positive control. Ctl -: LB with 2% of DMSO. Fractions were resuspended in sterile LB with 2% of DMSO.

**Table S1.** Solubility of *P. peltatum* freeze-dried extracts.

Polarity	Solvent	FDE-Root	FDE-Stem	FDE-Leaf	FDE-Flower
Polar	Water	++	++	+	++
	Ethanol 96%	-	+	+	+
	Ethanol 70%	++	++	++	+
	Methanol	++	++	++	+
	Chloroform	+	+	+	-
Non polar	Dichloromethane	+	+	-	-
	Ethyl acetate	-	+	-	-
	Hexane	-	-	-	-
	Diethyl ether	-	+	+	-

( - ) Non soluble; ( + ) Soluble; ( ++ ) Very soluble

**Table S2.** Inhibition zone growth (mm) of FDEs against different strains

Strain	FDE-Root (mm)	FDE-Stem (mm)	FDE-Leaf (mm)	FDE- Flower (mm)	FDE-Bicolor (mm)	Control + (mm)
<i>S. aureus</i>	9.89 ± 0.30 <b>abc</b>	12.15 ± 0.67 <b>def</b>	22.15 ± 0.71 <b>g</b>	20.33 ± 0.75	19.67 ± 0.53	26.19 ± 0.72
<i>S. enterica</i>	7.57 ± 1.48 <b>ac</b>	8.85 ± 0.79 <b>d</b>	12.29 ± 1.07 <b>h</b>	12.36 ± 1.04	10.76 ± 1.44	26.57 ± 0.92
<i>E. faecalis</i>	11.3 ± 0.27 <b>abc</b>	14.33 ± 0.79 <b>d</b>	22.41 ± 1.31 <b>gh</b>	18.41 ± 0.96	18.78 ± 1.43	20.93 ± 1.28
<i>S. marcescens.</i>	9.60 ± 0.47 <b>abc</b>	11.01 ± 0.34 <b>de</b>	15.83 ± 0.50 <b>g</b>	16.01 ± 0.44 <b>i</b>	16.40 ± 0.39	19.86 ± 0.36

Plus/minus values are means ± S.D.

† p-values for differences among the five extracts were calculated by analysis of variance. When the difference among the regions was significant ( $p < 0.05$ ), all pairwise comparisons tested for significance with the Tukey's Honest Significant Difference test (TukeyHSD) procedure.

‡ The value for the variable in FDE-Root is significantly different from the value in FDE-Stem ( $p < 0.001$ ).

**a** The value for the variable in FDE-Root is significantly different from the value in FDE-Leaf ( $p < 0.001$ ).

**b** The value for the variable in FDE-Root is significantly different from the value in FDE-Flower ( $p < 0.001$ ).

**c** The value for the variable in FDE-Root is significantly different from the value in FDE-Bicolor ( $p < 0.001$ ).

**d** The value for the variable in FDE-Stem is significantly different from the value in FDE-Leaf ( $p < 0.001$ ).

**e** The value for the variable in FDE-Stem is significantly different from the value in FDE-Flower ( $p < 0.001$ ).

**f** The value for the variable in FDE-Stem is significantly different from the value in FDE-Bicolor ( $p < 0.001$ ).

**h** The value for the variable in FDE-Leaf is significantly different from the value in FDE-Flower ( $p < 0.05$ ).

**g** The value for the variable in FDE-Leaf is significantly different from the value in FDE-Bicolor ( $p < 0.05$ ).

**i** The value for the variable in FDE-Flower is significantly different from the value in FDE-Bicolor ( $p < 0.05$ ).

FDE, Freeze-Dried Extract; mm, millimeters