

Supplementary Materials

# Evaluation of Antimicrobial Properties, Cell Viability, and Metalloproteinase Activity of Bioceramic Endodontic Materials Used in Vital Pulp Therapy

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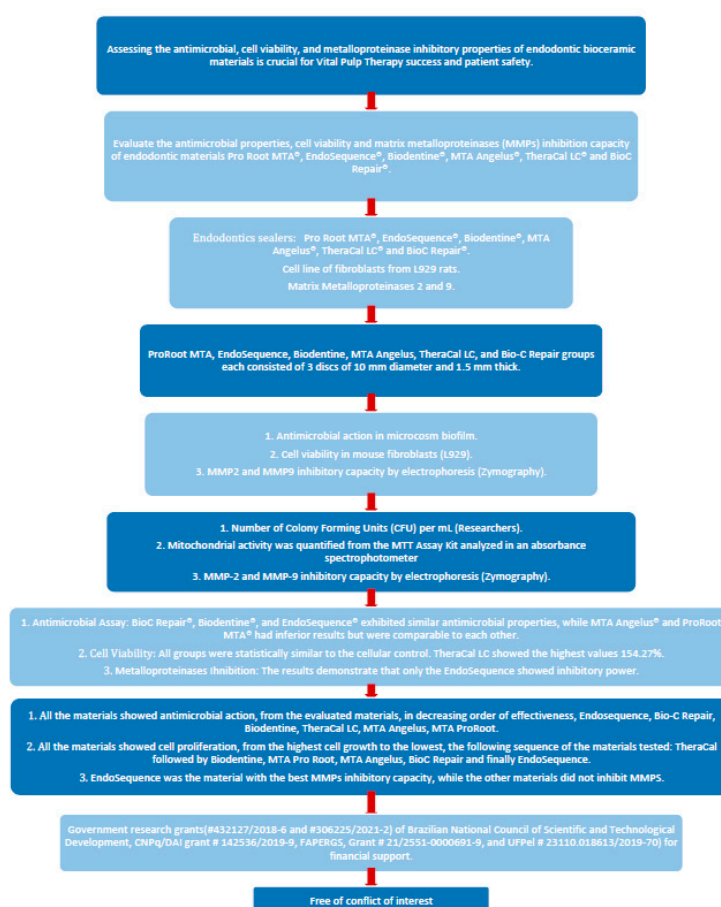
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**Figure S1.** Flowchart according to the Preferred Reporting Items for Laboratory studies in Endodontology (PRILE) 2021 Guidelines.

**Table S1.** Description of polyacrylamide gel reagents.

Reagent/Solution	Manufacturer	Separation Gel	Starting Gel
Distilled water		3.33 mL	1.66 mL
30% Acrylamide + 0.8% Bisacrylamide	Vetec; Invitrogen	4.00 mL	0.66 mL
Separation gel buffer (Tris-HCl) pH 8.8	Vetec	2.66 mL	
Starting gel buffer (Tris-HCl) pH 6.8	Vetec		0.66 mL
Gelatin	Vetec	100.00 µl	
TEMED (N, N, N', N'-Tetramthylenediamine)	Vetec	33.33 µl	3.33 µl
Ammonium persulfate 20%	Vetec	66.66 µl	17 µl

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. Invitrogen: Carlsbad, California USA.

**Table S2.** Running buffer.

Reagent/Solution	Manufacturer	Quantity
Glycine	Vetec	36.00 g
SDS	Vetec	2.50 g
Tris-Base	Vetec	7.55 g
Distilled water	Vetec	qsp 500 mL

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. † Dilute 1:4 at the time of use, no need to adjust the pH.

**Table S3.** 2% Triton Solution †.

Reagent/Solution	Manufacturer	Quantity
Triton-X	Vetec	10 mL
Distilled Water		500 mL

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. † Water must be heated.

**Table S4.** Incubation Buffer †.

Reagent/Solution	Manufacturer	Quantity
CaCl	Synth	1.00 mL
Tris HCl (1M)	Vetec	2.00 mL
Distilled water	Vetec	197 mL

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. Synth, Diadema, SP, Brazil. † Adjust pH to 7.4.

**Table S5.** Dye Solution.

Reagent/Solution	Manufacturer	Quantity
Methanol	Vetec	50%
Acetic Acid	Synth	25%
Coomassie blue	Vetec	0.1%
R250		qsp 500 mL

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. Synth, Diadema, SP, Brazil.

**Table S6.** Bleaching Solution.

Reagent/Solution	Manufacturer	Quantity
Methanol	Vetec	30%
Acetic Acid	Synth	10%
Distilled water		qsp 1000mL

Vetec Indústria e Comércio, Duque de Caxias, RJ, Brazil. Synth, Diadema, SP, Brazil.

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