

Table S1. Composition of MTA-Angelus White (Angelus, Londrina, PR, Brazil), AH-Plus (Dentsply De Trey, Konstanz, Germany), and MTA-Fillapex (Angelus, Londrina, PR, Brazil).

Endodontic material	Chemical composition	Percentage
MTA-Angelus	Tri-calcium silicate	51%
	Di-calcium silicate	10%
	Tri-calcium aluminate	11%
	Ferroaluminate tri-calcium	3%
	Calcium oxide	5%
	Bismuth oxide	20%
AH-Plus	Chemical composition	Percentage
	Paste A	
	Bisphenol-A epoxy resin	25-50%
	Bisphenol-F epoxy resin	2.5-10%
	Calcium tungstenate	40-72.5%
	Zirconium oxide	
	Silica	
	Iron oxide	
	Paste B	
	Dibenzyl-diamine	10-25%
	Aminoadamantane	2.5-10%
	Tri-cyclodecane diamine	65-87.5%
	Calcium tungstenate	
	Zirconium oxide	
	Silica	
	Silicone oil	
MTA-Fillapex	Chemical composition	Percentage
	Paste A	
	Methyl salicylate butylene glycol colophony	44%
	Bismuth trioxide	35%
	Fumed silicon dioxide	5%
	Titanium dioxide	16%
	Paste B	
	MTA	44%
	Pentaerythritol rosinate	47%
	Fumed silicon dioxide	6%
	Titanium dioxide	3%