

Supplementary Material

Table 6. Regular and whitening toothpastes evaluated in the present study.

Toothpaste	Code	Manufacturer	Composition	Batch
Regular:				
Colgate Máxima Proteção Anti-Cáries	A	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Monofluorophosphate (1450ppm Fluoride), Calcium Carbonate, Water, Glycerin, Sodium Lauryl Sulfate Flavor, Cellulose Gum, Pyrophosphate tetrasodium, Sodium Bicarbonate, Benzyl Alcohol, Sodium Saccharin, Sodium Hydroxide, Titanium Dioxide (CI 77891)	2299BR121C
Colgate Total 12	B	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Sodium Saccharin, Phosphoric Acid, Sucralose. Glycerol, Water, Silica Dioxide, Sodium Lauryl Sulfate, Arginine, Aroma, Zinc Oxide, Carmellose Sodium, Titanium Dioxide (CI 77891), Benzyl Alcohol, Poloxalene, Zinc Citrate, Pyrophosphate Tetrasodium, Xanthan Gum, Cocoamidopropylbetaine	2308BR122B
Oral-B Anti Cáries	C	Oral-B – Procter & Gamble do Brasil (P&G), Seropédica, Rio de Janeiro, RJ - Brazil	Sodium Monofluorophosphate (1450ppm Fluoride), Water, Calcium Carbonate, Hydrated Silica, Sodium Lauryl Sulfate, Cellulose Gum, Aroma, Sodium Carbonate, Sodium Bicarbonate, Saccharin, Benzyl Alcohol, Propylparaben, Limonene	30623662B0
Sorriso Fresh Xtra Mint	D	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Fluoride (1100 ppm Fluoride), Sorbitol, Water, Hydrated Silica, Sodium Lauryl Sulfate, PEG 12, Aroma, Cellulose Gum, Saccharin, Titanium Dioxide (CI 77891)	2063BR121G
Whitening:				
Colgate Luminous White Lovers Vinho	E	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Monofluorophosphate 0.76% (1000ppm Fluoride), Hydrogen Peroxide 1%, Propylene Glycol, Calcium Pyrophosphate, Glycerin, Copolymer 66 (PEG/PPG-116), PEG 12, PVP, Silica, Aroma, Pyrophosphate Tetrasodium, Sodium Lauryl Sulfate, Pyrophosphate Disodium, Sodium Saccharin, Sucralose, Hydroxytoluene Butylated (BHT)	1177MX112E
Colgate Luminous White Lovers Café	F	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Monofluorophosphate 0.76% (1000ppm Fluoride), Hydrogen Peroxide 1%, Propylene Glycol, Calcium Pyrophosphate, Glycerin, Copolymer 66 (PEG/PPG-116), PEG 12, PVP, Silica, Aroma, Pyrophosphate Tetrasodium, Sodium Lauryl Sulfate, Pyrophosphate Disodium, Sodium Saccharin, Sucralose, Hydroxytoluene Butylated (BHT), Eugenol	2230MX111E

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Colgate Luminous White Instant	G	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Water, Sorbitol, Hydrated Silica, PEG 12, Sodium Lauryl Sulfate, Aroma, Cellulose Gum, Potassium Hydroxide, Pyrophosphate Tetrasodium, Phosphoric Acid, Cocamidopropyl Betaine, Benzyl Alcohol, Sodium Saccharin, Titanium Dioxide (CI 77891), Limonene	2294BR121B
Colgate Total 12 Professional Whitening	H	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Water, Sorbitol, Hydrated Silica, PEG 12, Sodium Lauryl Sulfate, Aroma, Cellulose Gum, Potassium Hydroxide, Pyrophosphate Tetrasodium, Phosphoric Acid, Cocamidopropyl Betaine, Benzyl Alcohol, Limonene	2312BR122D
Curaprox Black Is White	I	Curaprox - Curaden Swiss do Brasil, São Caetano do Sul – SP, Brazil	Monofluorophosphate (950 ppm Fluoride), Water, Sorbitol, Hydrated Silica, Glycerin, Activated Charcoal, Aroma, Decyl Glucoside, Cocamidopropyl Betaine, Sodium, Tocopherol, Citrus Lemon Peel, Sodium Hydroxide, Corn Starch, Amyloglucosity, Glucose Oxidase, Dioica Nettle Extract, Potassium Thiocyanate, Cetearyl Alcohol, Hydrogenated Lecithin, Menthyl Lactate, Menthyl Diisopropyl Propionamide, Ethyl Menthanecarboxamide, Stearic Acid, Mannitol, Sodium Bisulfite, Tin Dioxide, Lactoperoxidities, Limonene	525MHDEXP1024
Sensodyne True White	J	GSK – GlaxoSmithKline Brasil LTDA, Jacarepaguá, Rio de Janeiro, RJ, Brazil	Sodium Fluoride 0.3152% (1426 ppm Fluoride), Potassium Nitrate 5%, Sorbitol, Water, Glycerol, Silica Dioxide, Pentasodium Triphosphate, Macrogol, Cocoamidopropylbetaine, Aroma, Titanium Dioxide (CI 77891), Xanthan Gum, Sodium hydroxide, Sodium Saccharin, Dextrolimonene	9S8E
Oral-B 3D White Mineral Clean	K	Oral-B – Procter & Gamble do Brasil (P&G), Seropédica, Rio de Janeiro, RJ - Brazil	Sodium Fluoride (1100 ppm Fluoride), Water, Sorbitol, Silica Dioxide, Disodium Pyrophosphate, Sodium Lauryl Sulfate, Cellulose Gum, Aroma, Sodium Hydroxide, Saccharin, Carbopol, Activated Charcoal, Mica, Limonene, Titanium Dioxide, Polysorbate 80	033754P0
Oral-B 3D Glamorous White	L	Oral-B – Procter & Gamble do Brasil (P&G), Seropédica, Rio de Janeiro, RJ - Brazil	Sodium Fluoride (1100 ppm Fluoride), Water, Sorbite, Silica Dioxide, Disodium Pyrophosphate, Sodium Lauryl Sulfate, Aroma, Cellulose Gum, Sodium Hydroxide, Carbopol, Mica (CI 77019), Limonene, Titanium Dioxide (CI 77891), Sodium Benzoate, Potassium Sorbate, Blue Covarine, Citric Acid, Aroma, Oil Mint Extract	2162435400

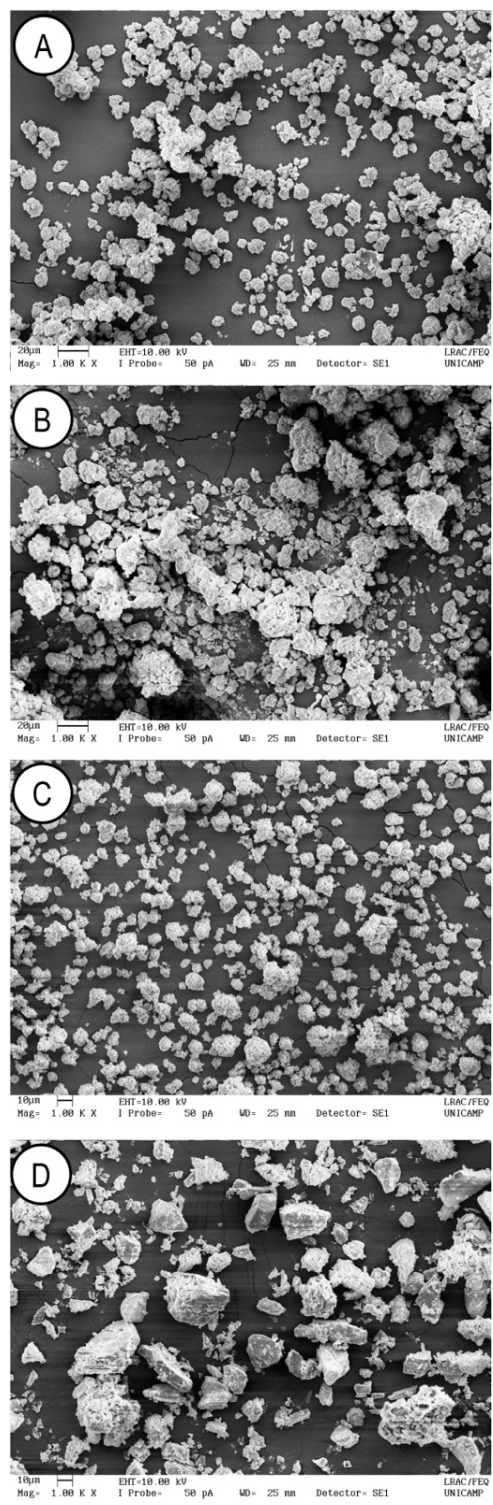
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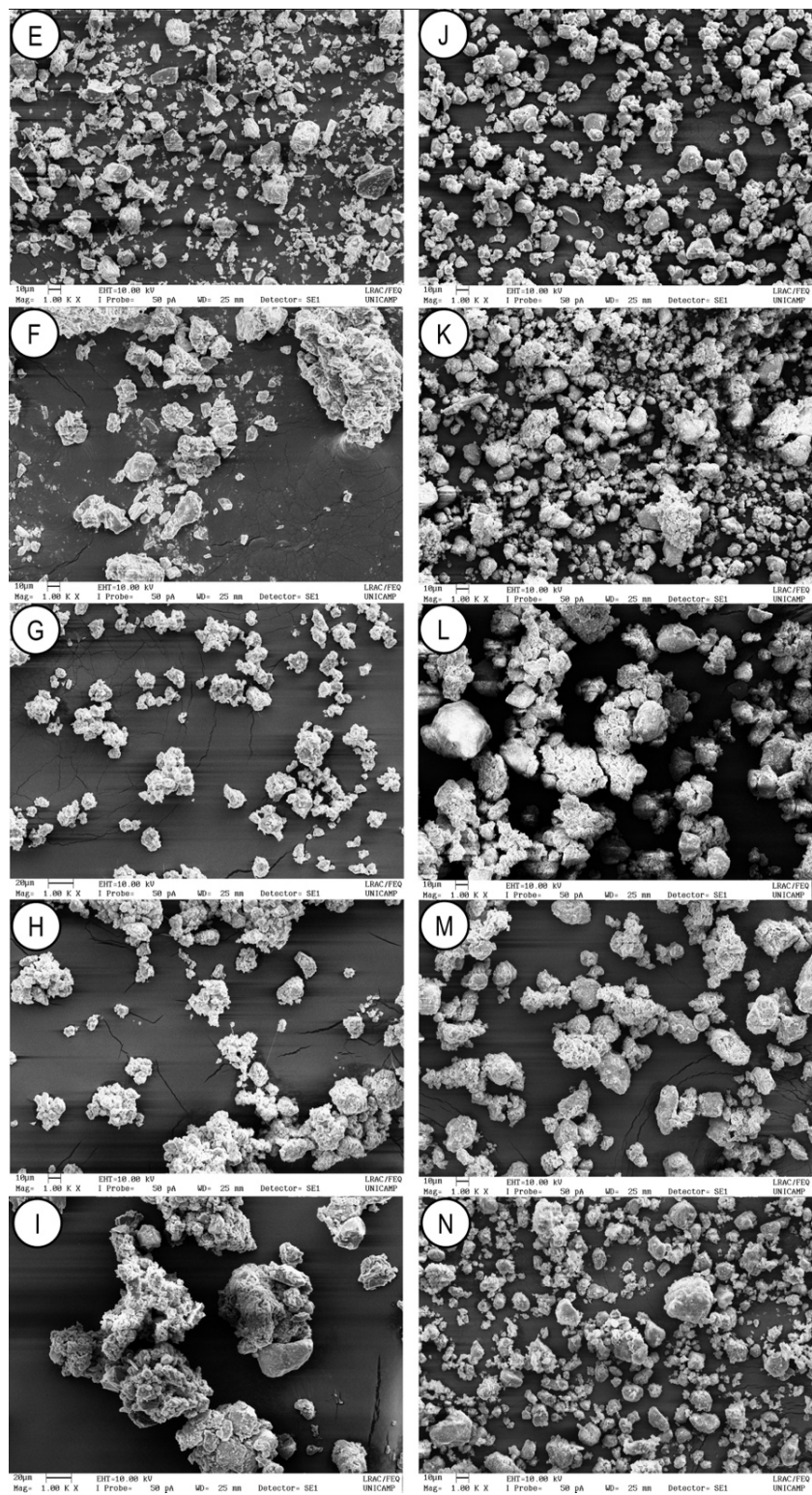
Oral-B Natural Essence Com Bicarbonato De Sódio E Carvão	M	Oral-B – Procter & Gramble do Brasil (P&G), Seropédica, Rio de Janeiro, RJ - Brazil	Sodium Fluoride (1450 ppm Fluoride), Water, Sorbitol, Silica Dioxide, Disodium Pyrophosphate, Sodium Lauryl Sulfate, Cellulose Gum, Aroma, Sodium Hydroxide, Sodium Bicarbonate, Carbopol, Saccharin, Xanthan Gum, Titanium Dioxide (CI 77891), Mica (CI 77019), Activated Charcoal.	20924354P0
Close Up White Now	N	Close Up – Unilever Brasil Industrial, Vinhedo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Sorbitol, Water, Silica Dioxide, Sodium Lauryl Sulfate, PEG 32, Aroma, Cellulose Gum, Saccharin, Trisodium Phosphate, PVM/MA Copolymer, Blue Covarine, Mica (CI 77019), Titanium Dioxide (CI 77891), Limonene	3072A032025
Close-Up White Attraction Natural Glow	O	Close Up – Unilever Brasil Industrial, Vinhedo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Sorbitol, Water, Silica Dioxide, Sodium Lauryl Sulfate, PEG 32, Aroma, Cellulose Gum, Saccharin, Coconut Extract, Mica (CI 77019), Titanium Dioxide (CI 77891), Black (CI 77266), Activated Charcoal	3072A032025
Sorriso Dentes Brancos	P	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Monofluorophosphate (1450 ppm Fluoride), Calcium Carbonate, Water, Glycerin, Sodium Lauryl Sulfate, Aroma, Sodium, Saccharin, Sodium Dioxide, Limonene	2106BR122H
Sorriso Carvão Ativado Branco Irresistível	Q	Colgate-Palmolive, São Bernardo do Campo, SP - Brazil	Sodium Fluoride (1450 ppm Fluoride), Water, Glycerol, Silica Dioxide, Sodium Lauryl Sulfate, Aroma, Cellulose Gum, Xanthan Gum, Sodium Saccharin, Benzyl Alcohol, Activated Vegetable Charcoal, Eugenol	1230BR122G5
On Guard Creme Dental Clareador Natural Do Terra	R	doTERRA Cosméticos do Brasil Ltda, Barueri, SP – Brazil	Glycerol, Water, Silica Dioxide, Calcium Carbonate, Xylitol, Hydroxyapatite, Cellulose Gum, Peppermint Oil, Xanthan Gum, Stevia, N- Laurylsarcosine, Orange Peel Essential Oil, Cinnamon Essential Oil, Essential Oil Eucalyptus, Clove essential oil, Galteria essential oil, Sodium Chloride, Sodium Gluconate	2221882BR
Edel White - Creme Dental Anti Placa + Branqueador	S	Edel White Brasil, Indianópolis, São Paulo – SP, Brazil.	Fluoride (1450 ppm Fluoride), Water, Sorbitol, Silica Dioxide, Glycerol, Sodium Pyrophosphate, Cocamidopropyl Betaine, Cellulose Gum, Aroma, Silica, N- Laurylsarcosine, Titanium Dioxide, Sodium, Sodium Methylparaben, Saccharin	0098/02.24
Bianco Carbon Whitening	T	Grupo Lima & Pergher S/A, Uberlândia, MG – Brazil	Glycerin, Water, Silica Dioxide, Xylitol, Sodium Lauryl Sulfate, Aroma, Tricalcium Phosphate, Cellulose Gum, Maltodextrin, Sodium Benzoate, Zinc Lactate, Activated Charcoal, Sucralose, Citrus Lemon Extract, Citrus Orange Extract, Citrus Extract ginger	120271191222

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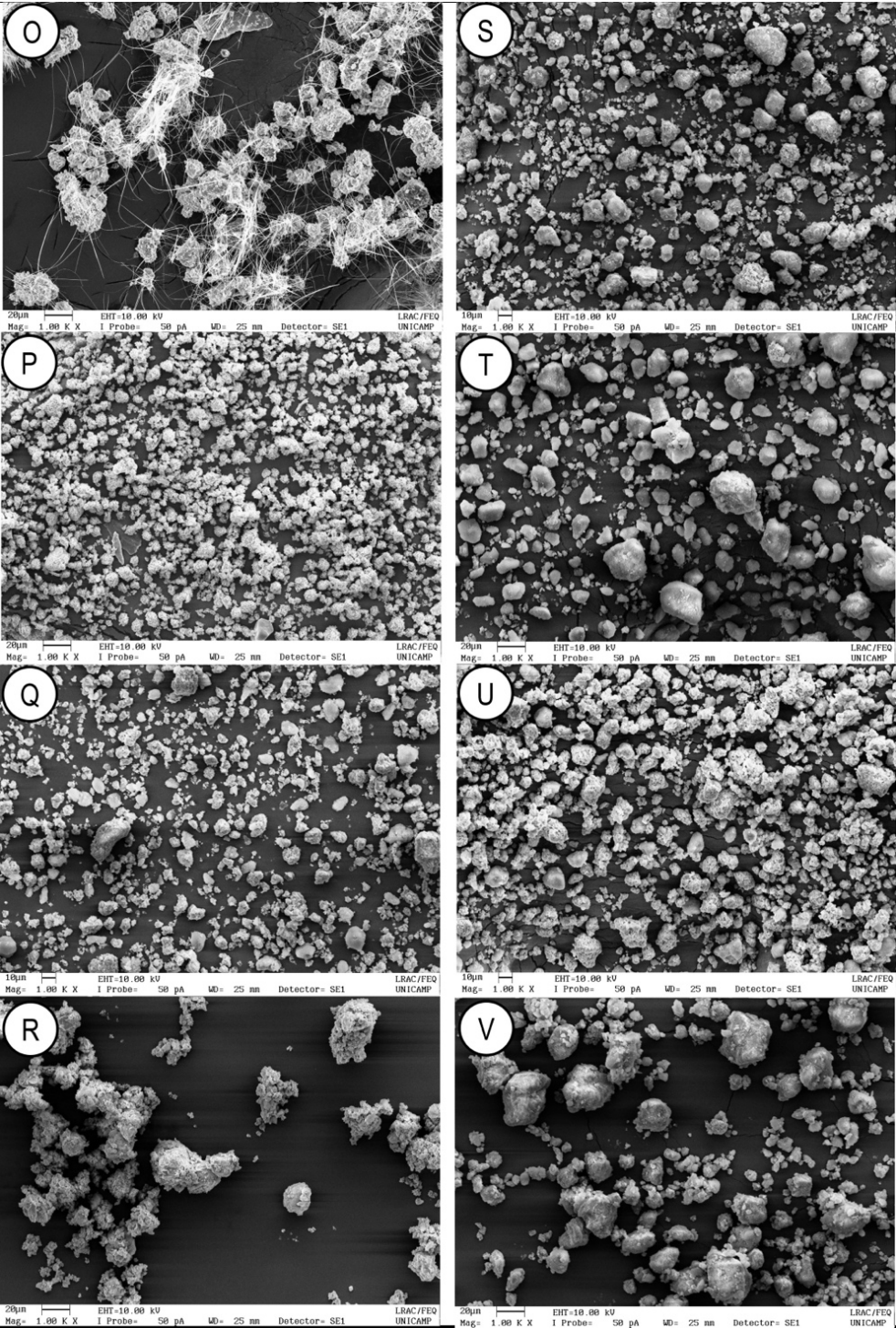
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Gel Dental Clareador Pro White - Hinode	U	Hinode Cosméticos Group – Barueri, São Paulo, SP - Brazil	Monofluorophosphate (1500 ppm Fluoride), Water, Glycerol, Silica Dioxide, Sodium Lauryl Sulfate, Disodium Pyrophosphate, Calcium Glycerophosphate, Saccharin, Methylparaben, Panthenol, Propylparaben, Blue Covarine, CI 73360	151661
Restore Speed Whitening Nano Repair	V	Jeunesse Global, Barueri, SP – Brazil	Glycerin, Silica Dioxide, Sodium Lauryl Sulfate, Cellulose Gum, Xylitol, Melaleuca Extract, Saccharin, Aroma, Methylparaben, Propylparaben, Potassium Citrate, Phthalocyanine Green G (CI 74260), Hydroxyapatite, Water	C1035



Supplementary Figure 3. Images of regular toothpastes by SEM (1000×). The codes are presented in the table of supplementary material.



Supplementary Figure 4. Images of whitening toothpastes by SEM (1000×). The codes are presented in the table of supplementary material.



Supplementary Figure 5. Images of whitening toothpastes by SEM (1000x). The codes are presented in the table of supplementary material.