

SUPPORTING INFORMATION

New and Efficient Bioactive Glass Compositions for Controlling Endodontic Pathogens

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Table S1. Tukey's multiple comparisons test between incubation times with *Candida albicans*.

Samples and Concentrations (mg mL ⁻¹)		Time	Mean difference	95 % CI of difference		Std. Error of difference	Sig.
				Lower Bound	Upper Bound		
BG1	5.0	0 h vs 24 h	0.08	-0.97	1.13	0.32	ns
		0 h vs 48 h	-0.24	-1.30	0.81		ns
		24 h vs 48 h	-0.32	-1.38	0.73		ns
	15	0 h vs 24 h	3.45	2.40	4.51		<0.0001
		0 h vs 48 h	3.85	2.80	4.91		<0.0001
		24 h vs 48 h	0.40	-0.65	1.45		ns
	Ct	0 h vs 24 h	-1.91	-2.96	-0.86		<0.0001
		0 h vs 48 h	-4.92	-5.97	-3.87		<0.0001
		24 h vs 48 h	-3.01	-4.06	-1.96		<0.0001
BG2	5.0	0 h vs 24 h	0.63	0.08	1.18	0.22	<i>p</i> =0.0230
		0 h vs 48 h	0.30	-0.25	0.85		ns
		24 h vs 48 h	-0.33	-0.88	0.23		ns
	15	0 h vs 24 h	3.25	2.70	3.80		<0.0001
		0 h vs 48 h	3.97	3.42	4.52		<0.0001
		24 h vs 48 h	0.72	0.17	1.27		<i>p</i> =0.0082
	Ct	0 h vs 24 h	-2.13	-2.68	-1.58		<0.0001
		0 h vs 48 h	-4.92	-5.47	-4.37		<0.0001
		24 h vs 48 h	-2.79	-3.34	-2.24		<0.0001
BG3	5.0	0 h vs 24 h	0.31	-0.32	0.94	0.26	ns
		0 h vs 48 h	0.16	-0.47	0.79		ns
		24 h vs 48 h	-0.16	-0.79	0.48		ns
	15	0 h vs 24 h	4.04	3.41	4.67		<0.0001
		0 h vs 48 h	3.68	3.05	4.31		<0.0001
		24 h vs 48 h	-0.36	-0.99	0.27		ns
	Ct	0 h vs 24 h	-2.13	-2.76	-1.50		<0.0001
		0 h vs 48 h	-4.92	-5.55	-4.29		<0.0001
		24 h vs 48 h	-2.79	-3.42	-2.16		ns

Table S2. Tukey's multiple comparisons test between incubation times with *Enterococcus faecalis*.

Samples and Concentrations (mg mL ⁻¹)		Time	Mean difference	95 % CI of difference		Std. Error of difference	Sig.
				Lower Bound	Upper Bound		
BG1	5.0	0 h vs 24 h	-4.58	-6.12	-3.05	0.62	<0.0001
		0 h vs 48 h	-3.42	-4.95	-1.89		<0.0001
		24 h vs 48 h	1.16	-0.37	2.70		ns
	15	0 h vs 24 h	1.41	-0.12	2.95		ns
		0 h vs 48 h	-0.39	-1.93	1.14		ns
		24 h vs 48 h	-1.81	-3.34	-0.27		p=0.0183
	Ct	0 h vs 24 h	-4.81	-6.34	-3.27		<0.0001
		0 h vs 48 h	-6.16	-7.70	-4.63		<0.0001
		24 h vs 48 h	-1.36	-2.89	0.18		ns
BG2	5.0	0 h vs 24 h	-5.70	-6.72	-4.68	0.41	<0.0001
		0 h vs 48 h	-5.06	-6.08	-4.05		<0.0001
		24 h vs 48 h	0.64	-0.38	1.66		ns
	15	0 h vs 24 h	1.33	0.31	2.35		p=0.0085
		0 h vs 48 h	2.45	1.44	3.48		<0.0001
		24 h vs 48 h	1.13	0.11	2.15		p=0.0271
	Ct	0 h vs 24 h	-4.81	-5.83	-3.79		<0.0001
		0 h vs 48 h	-6.16	-7.18	-5.15		<0.0001
		24 h vs 48 h	-1.36	-2.37	-0.34		p=0.0071
BG3	5.0	0 h vs 24 h	-4.76	-5.86	-3.65	0.45	<0.0001
		0 h vs 48 h	-3.59	-4.70	-2.48		<0.0001
		24 h vs 48 h	1.17	0.06	2.28		p=0.0371
	15	0 h vs 24 h	-0.87	-1.97	0.24		ns
		0 h vs 48 h	1.36	0.25	2.47		p=0.0134
		24 h vs 48 h	2.23	1.12	3.34		<0.0001
	Ct	0 h vs 24 h	-4.81	-5.92	-3.70		<0.0001
		0 h vs 48 h	-6.16	-7.27	-5.06		<0.0001
		24 h vs 48 h	-1.36	-2.46	-0.25		p=0.0139

Table S3. Tukey's multiple comparisons test between BGs with *Candida albicans*.

Time	Samples and Concentrations (mg mL ⁻¹)		Mean difference	95 % CI of difference		Std. Error of difference	Sig.
				Lower Bound	Upper Bound		
0 h	5.0	Ct vs BG1	0.27	-0.69	1.23	0.36	ns
		Ct vs BG2	0.04	-0.92	1.00		ns
		Ct vs BG3	0.20	-0.77	1.16		ns
		BG1 vs BG2	-0.23	-1.19	0.73		ns
		BG1 vs BG3	-0.08	-1.04	0.89		ns
		BG2 vs BG3	0.16	-0.80	1.12		ns
24 h		Ct vs BG1	2.26	1.30	3.22	0.36	<0.0001
		Ct vs BG2	2.58	1.62	3.54		<0.0001
		Ct vs BG3	2.42	1.46	3.38		<0.0001
		BG1 vs BG2	0.32	-0.65	1.28		ns
		BG1 vs BG3	0.16	-0.80	1.12		ns
		BG2 vs BG3	-0.16	-1.12	0.80		ns
48 h		Ct vs BG1	4.95	3.99	5.91	0.36	<0.0001
		Ct vs BG2	5.26	4.30	6.22		<0.0001
		Ct vs BG3	5.27	4.31	6.23		<0.0001
		BG1 vs BG2	0.31	-0.65	1.27		ns
		BG1 vs BG3	0.33	-0.63	1.29		ns
		BG2 vs BG3	0.01	-0.95	0.97		ns
0 h	15	Ct vs BG1	0.21	-0.50	0.92	0.27	ns
		Ct vs BG2	0.20	-0.51	0.91		ns
		Ct vs BG3	0.26	-0.45	0.97		ns
		BG1 vs BG2	-0.01	-0.72	0.70		ns
		BG1 vs BG3	0.05	-0.66	0.76		ns
		BG2 vs BG3	0.06	-0.65	0.77		ns
24 h		Ct vs BG1	5.58	4.87	6.28	0.27	<0.0001
		Ct vs BG2	5.36	4.65	6.07		<0.0001
		Ct vs BG3	6.21	5.50	6.92		<0.0001
		BG1 vs BG2	-0.22	-0.93	0.49		ns
		BG1 vs BG3	0.63	-0.07	1.34		ns
		BG2 vs BG3	0.85	0.15	1.56		p=0.0332
48 h		Ct vs BG1	8.99	8.28	9.70	0.27	<0.0001
		Ct vs BG2	9.09	8.38	9.80		<0.0001
		Ct vs BG3	8.86	8.15	9.57		<0.0001
		BG1 vs BG2	0.10	-0.61	0.81		ns
		BG1 vs BG3	-0.13	-0.84	0.58		ns
		BG2 vs BG3	-0.23	-0.94	0.48		ns

Table S4. Tukey's multiple comparisons test between BGs with *Enterococcus faecalis*.

Time	Samples and Concentrations (mg mL ⁻¹)		Mean difference	95 % CI of difference		Std. Error of difference	Sig.
				Lower Bound	Upper Bound		
0 h	5.0	Ct vs BG1	0.003	-1.26	1.26	0.47	ns
		Ct vs BG2	0.02	-1.24	1.28		ns
		Ct vs BG3	0.04	-1.22	1.30		ns
		BG1 vs BG2	0.01	-1.25	1.27		ns
		BG1 vs BG3	0.03	-1.23	1.30		ns
		BG2 vs BG3	0.02	-1.24	1.28		ns
24 h		Ct vs BG1	0.23	-1.03	1.49	0.47	ns
		Ct vs BG2	-0.88	-2.14	0.38		ns
		Ct vs BG3	0.09	-1.17	1.35		ns
		BG1 vs BG2	-1.11	-2.37	0.15		ns
		BG1 vs BG3	-0.14	-1.40	1.12		ns
		BG2 vs BG3	0.97	-0.29	2.23		ns
48 h		Ct vs BG1	2.75	1.49	4.01	0.47	<0.0001
		Ct vs BG2	1.12	-0.14	2.38		ns
		Ct vs BG3	2.61	1.35	3.87		<0.0001
		BG1 vs BG2	-1.63	-2.89	-0.37		p=0.0021
		BG1 vs BG3	-0.13	-1.39	1.13		ns
		BG2 vs BG3	1.50	0.24	2.76		p=0.0332
0 h	15	Ct vs BG1	0.002	-1.27	1.27	0.48	ns
		Ct vs BG2	0.02	-1.25	1.29		ns
		Ct vs BG3	0.03	-1.24	1.30		ns
		BG1 vs BG2	0.02	-1.25	1.29		ns
		BG1 vs BG3	0.03	-1.24	1.30		ns
		BG2 vs BG3	0.01	-1.26	1.28		ns
24 h		Ct vs BG1	6.22	4.96	7.49	0.48	<0.0001
		Ct vs BG2	6.16	4.89	7.42		<0.0001
		Ct vs BG3	3.98	2.71	5.24		<0.0001
		BG1 vs BG2	-0.07	-1.34	1.20		ns
		BG1 vs BG3	-2.25	-3.52	-0.98		p=0.0002
		BG2 vs BG3	-2.18	-3.45	-0.91		p=0.0002
48 h		Ct vs BG1	5.78	4.51	7.04	0.48	<0.0001
		Ct vs BG2	8.64	7.37	9.91		<0.0001
		Ct vs BG3	7.56	6.29	8.83		<0.0001
		BG1 vs BG2	2.87	1.60	4.14		<0.0001
		BG1 vs BG3	1.78	0.52	3.05		p=0.0021
		BG2 vs BG3	-1.08	-2.35	0.18		ns