

**Intralaboratory CV Analysis of BCOP -  
Southee 1998**

Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction	
Ammonium nitrate - Lab 1 (1)	1	100%	6.0	0.078	7.2		
	2		2.0	0.022	2.3		
	3		5.0	0.011	5.2		Mild
	mean		4.3	0.037	4.9		
	SD		2.1	0.036	2.5		
	%CV		48.0	97.1	50.3		
Ammonium nitrate - Lab 1 (2)	1	100%	5.7	0.038	6.3		
	2		5.7	0.094	7.1		Mild
	3		3.7	0.045	4.4		
	mean		5.0	0.059	5.9		
	SD		1.2	0.031	1.4		
	%CV		22.9	51.7	23.4		
Ammonium nitrate - Lab 2 (1)	1	100%	2.3	0.123	4.1		
	2		2.3	0.221	5.6		Mild
	3		0.3	0.116	2.0		
	mean		1.6	0.153	3.9		
	SD		1.2	0.059	1.8		
	%CV		70.7	38.3	46.4		
Ammonium nitrate - Lab 2 (2)	1	100%	1.7	0.057	2.6		
	2		1.7	0.139	3.8		Mild
	3		2.7	0.126	4.6		
	mean		2.0	0.107	3.7		
	SD		0.6	0.044	1.0		
	%CV		28.4	41.1	27.5		
Ammonium nitrate - Lab 3 (1)	1	100%	4.0	0.126	5.9		
	2		3.0	0.111	4.7		Mild
	3		4.0	0.063	4.9		
	mean		3.7	0.100	5.2		
	SD		0.6	0.033	0.6		
	%CV		15.7	32.9	12.4		
Ammonium nitrate - Lab 3 (2)	1	100%	4.0	0.191	6.9		
	2		4.0	0.078	5.2		Mild
	3		5.0	0.207	8.1		
	mean		4.3	0.159	6.7		
	SD		0.6	0.070	1.5		
	%CV		13.3	44.3	21.6		
Benzalkonium chloride - Lab 1 (1)	1	100%	79.7	8.005	199.8		
	2		85.7	7.850	203.5		Severe
	3		86.7	6.370	182.3		
	mean		84.0	7.408	195.2		
	SD		3.8	0.903	11.3		
	%CV		4.5	12.2	5.8		
Benzalkonium chloride - Lab 1 (2)	1	100%	89.3	3.326	139.2		
	2		84.3	3.519	137.1		Severe
	3		83.3	3.070	129.4		
	mean		85.6	3.305	135.2		
	SD		3.2	0.225	5.2		
	%CV		3.8	6.8	3.8		
Benzalkonium chloride - Lab 1 (3)	1	100%	83.0	3.708	138.6		
	2		80.0	3.989	139.8		Severe
	3		83.0	3.490	135.4		
	mean		82.0	3.729	137.9		
	SD		1.7	0.250	2.3		
	%CV		2.1	6.709	1.6		
Benzalkonium chloride - Lab 1 (4)	1	100%	82.0	5.8	168.6		
	2		82.0	3.539	135.1		Severe
	3		91.0	4.987	165.8		
	mean		85.0	4.766	156.5		
	SD		5.2	1.132	18.6		
	%CV		6.1	23.8	11.9		
Benzalkonium chloride - Lab 1 (5)	1	100%	89.7	3.229	138.1		
	2		86.7	3.415	137.9		Severe
	3		86.7	3.418	138.0		
	mean		87.7	3.354	138.0		
	SD		1.7	0.108	0.1		
	%CV		2.0	3.2	0.1		

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Benzalkonium chloride - Lab 2 (1)	1	100%	95.0	3.919	153.8	
	2		80.0	4.237	143.6	
	3		89.0	5.122	165.8	
	mean		88.0	4.426	154.4	
	SD		7.5	0.623	11.1	
	%CV		8.6	14.1	7.2	
Benzalkonium chloride - Lab 2 (2)	1	100%	106.3	4.780	178.0	
	2		91.3	3.459	143.2	
	3		86.3	4.205	149.4	
	mean		94.6	4.148	156.9	
	SD		10.4	0.662	18.6	
	%CV		11.0	16.0	11.8	
Benzalkonium chloride - Lab 2 (3)	1	100%	86.0	4.324	150.9	
	2		80.0	4.246	143.7	
	3		95.0	4.187	157.8	
	mean		87.0	4.252	150.8	
	SD		7.5	0.069	7.1	
	%CV		8.7	1.6	4.7	
Benzalkonium chloride - Lab 2 (4)	1	100%	96.0	4.512	163.7	
	2		93.0	5.200	171.0	
	3		90.0	3.123	136.8	
	mean		93.0	4.278	157.2	
	SD		3.0	1.058	18.0	
	%CV		3.2	24.7	11.5	
Benzalkonium chloride - Lab 2 (5)	1	100%	97.0	4.035	157.5	
	2		97.0	4.296	161.4	
	3		101.0	3.584	154.8	
	mean		98.3	3.972	157.9	
	SD		2.3	0.360	3.3	
	%CV		2.3	9.1	2.1	
Benzalkonium chloride - Lab 3 (1)	1	100%	96.7	3.842	154.3	
	2		98.7	5.102	175.2	
	3		94.7	3.102	141.2	
	mean		96.7	4.015	156.9	
	SD		2.0	1.011	17.1	
	%CV		2.1	25.2	10.9	
Benzalkonium chloride - Lab 3 (2)	1	100%	106.3	3.321	156.1	
	2		86.3	6.381	182.0	
	3		85.3	4.456	152.1	
	mean		92.6	4.719	163.4	
	SD		11.8	1.547	16.2	
	%CV		12.8	32.8	9.9	
Benzalkonium chloride - Lab 3 (3)	1	100%	101.0	4.364	166.5	
	2		102.0	3.974	161.6	
	3		112.0	4.609	181.1	
	mean		105.0	4.316	169.7	
	SD		6.1	0.320	10.1	
	%CV		5.8	7.4	6.0	
Benzalkonium chloride - Lab 3 (4)	1	100%	99.3	3.727	155.2	
	2		91.3	5.637	175.9	
	3		95.3	4.127	157.2	
	mean		95.3	4.497	162.8	
	SD		4.0	1.007	11.4	
	%CV		4.2	22.4	7.0	
Benzalkonium chloride - Lab 3 (5)	1	100%	84.0	3.993	143.9	
	2		97.0	4.153	159.3	
	3		96.0	3.698	151.5	
	mean		92.3	3.948	151.6	
	SD		7.2	0.231	7.7	
	%CV		7.8	5.8	5.1	
Hexadecyl trimethyl ammonium bromide - Lab 1 (1)	1	10%	15.3	0.968	29.8	
	2		11.3	0.512	19.0	
	3		13.3	0.481	20.5	
	mean		13.3	0.654	23.1	
	SD		2.0	0.273	5.9	
	%CV		15.0	41.7	25.3	
Hexadecyl trimethyl ammonium bromide - Lab 1 (2)	1	10%	13.0	0.569	21.5	
	2		11.0	0.554	19.3	
	3		5.0	0.374	19.3	
	mean		9.7	0.499	20.0	
	SD		4.2	0.109	1.3	
	%CV		43.1	21.7	6.3	
Hexadecyl trimethyl ammonium bromide - Lab 2 (1)	1	10%	16.0	1.970	45.6	

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	2		10.0	0.771	21.6	
	3		15.0	1.454	36.8	Moderate
	mean		13.7	1.398	34.7	
	SD		3.2	0.601	12.1	
	%CV		23.5	43.0	35.0	
Hexadecy trimethyl ammonium bromide - Lab 2 (2)	1	10%	16.0	1.572	39.6	
	2		15.0	2.686	55.3	
	3		8.0	0.970	22.6	Moderate
	mean		13.0	1.743	39.2	
	SD		4.4	0.871	16.4	
	%CV		33.5	50.0	41.8	
Hexadecy trimethyl ammonium bromide - Lab 3 (1)	1	10%	18.3	0.988	33.1	
	2		16.3	0.846	29.0	
	3		17.3	1.039	32.9	Moderate
	mean		17.3	0.958	31.7	
	SD		1.0	0.100	2.3	
	%CV		5.8	10.4	7.3	
Hexadecy trimethyl ammonium bromide - Lab 3 (2)	1	10%	17.0	0.537	25.1	
	2		16.0	0.402	22.0	Moderate
	3		20.0	1.515	42.7	
	mean		17.7	0.818	29.9	
	SD		2.1	0.607	11.2	
	%CV		11.8	74.3	37.3	
Ethanol - Lab 1 (1)	1	100%	16.3	1.227	34.7	
	2		20.3	1.534	43.3	Moderate
	3		16.3	1.034	31.8	
	mean		17.6	1.265	36.6	
	SD		2.3	0.252	6.0	
	%CV		13.1	19.9	16.3	
Ethanol - Lab 1 (2)	1	100%	22.7	1.753	49.0	
	2		13.7	1.502	36.2	Moderate
	3		12.7	0.990	27.6	
	mean		16.4	1.415	37.6	
	SD		5.5	0.389	10.8	
	%CV		33.7	27.5	28.6	
Ethanol - Lab 1 (3)	1	100%	15.0	1.325	34.9	
	2		12.0	0.703	22.5	Moderate
	3		14.0	1.157	31.4	
	mean		13.7	1.062	29.6	
	SD		1.5	0.322	6.4	
	%CV		11.2	30.3	21.6	
Ethanol - Lab 1 (4)	1	100%	11.7	2.259	45.6	
	2		13.7	2.050	44.5	Moderate
	3		12.7	1.491	35.1	
	mean		12.7	1.933	41.7	
	SD		1.0	0.397	5.8	
	%CV		7.9	20.5	13.8	
Ethanol - Lab 1 (5)	1	100%	13.0	0.987	27.8	
	2		14.0	1.084	30.3	Moderate
	3		17.0	1.303	36.5	
	mean		14.7	1.125	31.5	
	SD		2.1	0.162	4.5	
	%CV		14.2	14.4	14.2	

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Ethanol - Lab 2 (1)	1	100%	14.3	1.576	37.9	Moderate
	2		12.3	3.163	59.7	
	3		13.3	3.138	60.4	
	mean		13.3	2.626	52.7	
	SD		1.0	0.909	12.8	
	%CV		7.5	34.6	24.3	
Ethanol - Lab 2 (2)	1	100%	18.3	1.979	48.0	Severe
	2		18.3	2.231	51.8	
	3		14.3	3.303	63.8	
	mean		17.0	2.504	54.5	
	SD		2.3	0.703	8.2	
	%CV		13.6	28.1	15.1	
Ethanol - Lab 2 (3)	1	100%	22.0	2.511	59.7	Severe
	2		13.0	3.821	70.3	
	3		14.0	2.743	55.1	
	mean		16.3	3.025	61.7	
	SD		4.9	0.699	7.8	
	%CV		30.2	23.1	12.6	
Ethanol - Lab 2 (4)	1	100%	19.0	3.106	65.6	Severe
	2		16.0	2.859	58.9	
	3		17.0	2.606	56.1	
	mean		17.3	2.857	60.2	
	SD		1.5	0.250	4.9	
	%CV		8.8	8.8	8.1	
Ethanol - Lab 2 (5)	1	100%	14.0	2.444	50.7	Moderate
	2		13.0	3.126	59.9	
	3		17.0	2.339	52.1	
	mean		14.7	2.636	54.2	
	SD		2.1	0.427	5.0	
	%CV		14.2	16.2	9.1	
Ethanol - Lab 3 (1)	1	100%	18.3	0.853	31.1	Moderate
	2		17.3	2.756	58.6	
	3		14.3	2.471	51.4	
	mean		16.6	2.027	47.0	
	SD		2.1	1.026	14.3	
	%CV		12.5	50.6	30.3	
Ethanol - Lab 3 (2)	1	100%	16.3	1.866	44.3	Moderate
	2		21.3	1.761	47.7	
	3		16.3	1.866	44.3	
	mean		18.0	1.831	45.4	
	SD		2.9	0.061	2.0	
	%CV		16.1	3.3	4.3	
Ethanol - Lab 3 (3)	1	100%	17.3	1.726	43.2	Moderate
	2		18.3	1.592	42.2	
	3		22.3	1.701	47.8	
	mean		19.3	1.673	44.4	
	SD		2.6	0.071	3.0	
	%CV		13.7	4.3	6.7	
Ethanol - Lab 3 (4)	1	100%	19.0	1.301	38.5	Moderate
	2		23.0	1.374	43.6	
	3		24.0	2.073	55.1	
	mean		22.0	1.583	45.7	
	SD		2.6	0.426	8.5	
	%CV		12.0	26.9	18.6	
Ethanol - Lab 3 (5)	1	100%	18.3	2.700	58.8	Moderate
	2		17.3	2.515	55.0	
	3		20.3	1.970	49.9	
	mean		18.6	2.395	54.6	
	SD		1.5	0.380	4.5	
	%CV		8.2	15.8	8.2	
Imidazole - Lab 1 (1)	1	100%	89.0	3.312	138.7	Severe
	2		93.0	3.325	142.9	
	3		92.0	3.501	144.5	
	mean		91.3	3.379	142.0	
	SD		2.1	0.106	3.0	
	%CV		2.3	3.1	2.1	

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Imidazole - Lab 1 (2)	1	100%	95.0	2.629	134.4	
	2		89.0	3.760	145.0	Severe
	3		80.0	3.528	132.9	
	mean		88.0	3.306	137.4	
	SD		7.5	0.597	6.6	
	%CV		8.6	18.1	4.8	
Imidazole - Lab 1 (3)	1	100%	62.7	1.940	91.8	
	2		75.7	1.963	105.1	Severe
	3		82.7	3.792	139.6	
	mean		73.7	2.565	112.2	
	SD		10.1	1.063	24.7	
	%CV		13.8	41.4	22.0	
Imidazole - Lab 1 (4)	1	100%	94.7	2.141	126.8	
	2		87.7	2.664	127.7	Severe
	3		75.7	4.213	138.9	
	mean		86.0	3.006	131.1	
	SD		9.6	1.078	6.7	
	%CV		11.2	35.8	5.1	
Imidazole - Lab 1 (5)	1	100%	114.7	2.972	159.3	
	2		85.7	3.390	136.6	Severe
	3		90.7	3.361	141.1	
	mean		97.0	3.241	145.7	
	SD		15.5	0.233	12.0	
	%CV		16.0	7.2	8.3	
Imidazole - Lab 2 (1)	1	100%	88.7	3.831	146.2	
	2		74.7	3.227	123.1	Severe
	3		93.7	3.412	144.9	
	mean		85.7	3.490	138.1	
	SD		9.8	0.309	13.0	
	%CV		11.5	8.9	9.4	
Imidazole - Lab 2 (2)	1	100%	95.0	3.032	140.5	
	2		96.0	3.715	151.7	Severe
	3		73.0	3.666	128.0	
	mean		88.0	3.471	140.1	
	SD		13.0	0.381	11.9	
	%CV		14.8	11.0	8.5	
Imidazole - Lab 2 (3)	1	100%	86.3	2.539	124.4	
	2		92.3	3.357	142.7	Severe
	3		80.3	3.825	137.7	
	mean		86.3	3.240	134.9	
	SD		6.0	0.651	9.5	
	%CV		7.0	20.1	7.0	
Imidazole - Lab 2 (4)	1	100%	86.3	4.085	147.6	
	2		101.3	3.416	152.5	Severe
	3		89.3	5.471	171.4	
	mean		92.3	4.324	157.2	
	SD		7.9	1.048	12.6	
	%CV		8.6	24.2	8.0	
Imidazole - Lab 2 (5)	1	100%	106.7	2.583	145.4	
	2		82.7	3.371	133.3	Severe
	3		74.7	3.969	134.2	
	mean		88.0	3.308	137.6	
	SD		16.7	0.695	6.7	
	%CV		18.9	21.0	4.9	
Imidazole - Lab 3 (1)	1	100%	73.0	3.756	129.3	
	2		76.0	2.956	120.3	Severe
	3		100.0	4.611	169.2	
	mean		83.0	3.774	139.6	
	SD		14.8	0.828	26.0	
	%CV		17.8	21.9	18.6	
Imidazole - Lab 3 (2)	1	100%	89.0	2.625	128.4	
	2		84.0	3.070	130.1	Severe
	3		102.0	4.000	162.0	
	mean		91.7	3.232	140.2	
	SD		9.3	0.702	18.9	
	%CV		10.1	21.7	13.5	

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Imidazole - Lab 3 (3)	1	100%	77.7	3.604	131.8	Severe
	2		83.7	2.339	118.8	
	3		79.7	2.779	121.4	
	mean		80.4	2.907	124.0	
	SD		3.1	0.642	6.9	
	%CV		3.8	22.1	5.5	
Imidazole - Lab 3 (4)	1	100%	80.0	3.721	135.8	Severe
	2		84.0	3.106	130.6	
	3		83.0	2.451	119.8	
	mean		82.3	3.093	128.7	
	SD		2.1	0.635	8.2	
	%CV		2.5	20.5	6.3	
Imidazole - Lab 3 (5)	1	100%	68.3	2.741	109.4	Severe
	2		77.3	2.976	121.9	
	3		84.3	3.636	138.8	
	mean		76.6	3.118	123.4	
	SD		8.0	0.464	14.8	
	%CV		10.5	14.9	12.0	
NaOH - Lab 1 (1)	1	10%	190.7	5.354	271.0	Severe
	2		140.7	4.895	214.1	
	3		198.7	3.404	249.8	
	mean		176.7	4.551	245.0	
	SD		31.4	1.019	28.8	
	%CV		17.8	22.4	11.7	
NaOH - Lab 1 (2)	1	10%	171.0	3.483	223.2	Severe
	2		174.0	3.660	228.9	
	3		171.0	3.885	229.3	
	mean		172.0	3.676	227.1	
	SD		1.7	0.201	3.4	
	%CV		1.0	5.5	1.5	
NaOH - Lab 2 (1)	1	10%	189.0	4.228	252.4	Severe
	2		173.0	4.650	242.8	
	3		148.0	5.386	228.8	
	mean		170.0	4.755	241.3	
	SD		20.7	0.586	11.9	
	%CV		12.2	12.3	4.9	
NaOH - Lab 2 (2)	1	10%	180.0	4.122	241.8	Severe
	2		155.0	4.836	227.5	
	3		165.0	4.812	237.2	
	mean		166.7	4.590	235.5	
	SD		12.6	0.405	7.3	
	%CV		7.5	8.8	3.1	
NaOH - Lab 3 (1)	1	10%	139.0	5.039	214.6	Severe
	2		121.0	4.339	186.1	
	3		112.0	4.434	178.5	
	mean		124.0	4.604	193.1	
	SD		13.7	0.380	19.0	
	%CV		11.1	8.2	9.9	
NaOH - Lab 3 (2)	1	10%	149.3	3.535	202.3	Severe
	2		189.3	2.855	232.1	
	3		157.3	3.520	210.1	
	mean		165.3	3.303	214.8	
	SD		21.2	0.388	15.5	
	%CV		12.8	11.8	7.2	
Sodium oxalate - Lab 1 (1)	1	100%	-2.0	0.112	-0.3	Mild
	2		-2.0	0.020	-1.7	
	3		1.0	0.017	1.3	
	mean		-1.0	0.050	-0.2	
	SD		1.7	0.054	1.5	
	%CV		-173.2	108.7	-643.3	
Sodium oxalate - Lab 1 (2)	1	100%	-0.3	0.067	0.7	Mild
	2		-3.3	0.055	-2.5	
	3		0.7	0.044	1.4	
	mean		-1.0	0.055	-0.1	
	SD		2.1	0.012	2.1	
	%CV		-215.3	20.8	-1559.4	

**Intralaboratory CV Analysis of BCOP -  
Southee 1998**

Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
Sodium oxalate - Lab 2 (1)	1	100%	7.7	0.127	9.6	Mild
	2		7.7	0.112	9.4	
	3		9.7	0.144	11.9	
	mean		8.4	0.128	10.3	
	SD		1.2	0.016	1.4	
	%CV		13.8	12.5	13.5	
Sodium oxalate - Lab 2 (2)	1	100%	3.7	0.069	4.7	Mild
	2		2.7	0.044	3.4	
	3		3.7	0.099	5.2	
	mean		3.4	0.071	4.4	
	SD		0.6	0.028	0.9	
	%CV		17.1	39.0	21.0	
Sodium oxalate - Lab 3 (1)	1	100%	1.3	0.032	1.8	Mild
	2		2.3	0.088	3.6	
	3		2.3	0.032	2.8	
	mean		2.0	0.051	2.7	
	SD		0.6	0.032	0.9	
	%CV		29.4	63.8	33.0	
Sodium oxalate - Lab 3 (2)	1	100%	3.3	0.174	5.9	Mild
	2		2.3	0.145	4.5	
	3		1.3	0.130	3.3	
	mean		2.3	0.150	4.6	
	SD		1.0	0.022	1.3	
	%CV		43.5	14.9	28.5	
Parafluoroaniline - Lab 1 (1)	1	100%	15.0	1.777	41.7	Moderate
	2		14.0	1.965	43.5	
	3		11.0	1.248	29.7	
	mean		13.3	1.663	38.3	
	SD		2.1	0.372	7.5	
	%CV		15.6	22.4	19.6	
Parafluoroaniline - Lab 1 (2)	1	100%	13.3	0.908	26.9	Moderate
	2		21.3	1.970	50.9	
	3		13.3	1.419	34.6	
	mean		16.0	1.432	37.5	
	SD		4.6	0.531	12.3	
	%CV		28.9	37.081	32.7	
Parafluoroaniline - Lab 2 (1)	1	100%	14.3	0.930	28.3	Moderate
	2		16.3	1.521	39.1	
	3		15.3	0.681	25.5	
	mean		15.3	1.044	31.0	
	SD		1.0	0.431	7.2	
	%CV		6.5	41.3	23.2	
Parafluoroaniline - Lab 2 (2)	1	100%	14.3	0.922	28.1	Moderate
	2		20.3	1.332	40.3	
	3		14.3	1.476	36.4	
	mean		16.3	1.243	34.9	
	SD		3.5	0.287	6.2	
	%CV		21.3	23.1	17.8	
Parafluoroaniline - Lab 3 (1)	1	100%	11.0	0.913	24.7	Mild
	2		10.0	0.626	19.4	
	3		12.0	0.674	22.1	
	mean		11.0	0.738	22.1	
	SD		1.0	0.154	2.7	
	%CV		9.1	20.8	12.0	
Parafluoroaniline - Lab 3 (2)	1	100%	14.7	0.665	24.7	Moderate
	2		14.7	0.573	23.3	
	3		16.7	0.868	29.7	
	mean		15.4	0.702	25.9	
	SD		1.2	0.151	3.4	
	%CV		7.5	21.5	13.0	
Sodium lauryl sulfate - Lab 1 (1)	1	15%	0.7	0.596	9.6	Mild
	2		-0.3	0.933	13.7	
	3		1.7	1.507	24.3	
	mean		0.7	1.012	15.9	
	SD		1.0	0.461	7.6	
	%CV		142.9	45.5	47.8	

**Intralaboratory CV Analysis of BCOP -  
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Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
Sodium lauryl sulfate - Lab 1 (2)	1	15%	0.7	0.998	15.7	Mild
	2		1.7	1.163	19.1	
	3		0.7	1.096	17.1	
	mean		1.0	1.086	17.3	
	SD		0.6	0.083	1.7	
	%CV		55.9	7.6	9.9	
Sodium lauryl sulfate - Lab 2 (1)	1	15%	-0.7	0.391	5.2	Mild
	2		-0.7	0.436	5.8	
	3		-0.7	0.398	5.3	
	mean		-0.7	0.408	5.4	
	SD		0.0	0.024	0.3	
	%CV		0.0	5.9	5.9	
Sodium lauryl sulfate - Lab 2 (2)	1	15%	0.3	0.157	2.7	Mild
	2		-0.7	0.367	4.8	
	3		0.3	0.519	8.1	
	mean		0.0	0.348	5.2	
	SD		0.6	0.182	2.7	
	%CV		-1732.1	52.3	52.3	
Sodium lauryl sulfate - Lab 3 (1)	1	15%	1.0	0.567	9.5	Mild
	2		0.0	0.594	8.9	
	3		1.0	0.392	6.9	
	mean		0.7	0.518	8.4	
	SD		0.6	0.110	1.4	
	%CV		86.6	21.2	16.1	
Sodium lauryl sulfate - Lab 3 (2)	1	15%	2.0	0.354	7.3	Mild
	2		1.0	0.230	4.5	
	3		1.0	0.266	5.0	
	mean		1.3	0.283	5.6	
	SD		0.6	0.064	1.5	
	%CV		43.3	22.5	26.7	
Butyl cellulosolve - Lab 1 (1)	1	100%	31.3	5.071	107.4	
	2		29.3	3.548	82.5	
	3		28.3	4.020	88.6	
	mean		29.6	4.213	92.8	
	SD		1.5	0.780	13.0	
	%CV		5.2	18.5	14.0	
Butyl cellulosolve - Lab 1 (2)	1	100%	30.0	5.013	105.2	Severe
	2		30.0	5.036	105.5	
	3		34.0	3.528	86.9	
	mean		31.3	4.526	99.2	
	SD		2.3	0.864	10.7	
	%CV		7.4	19.1	10.7	
Butyl cellulosolve - Lab 2 (1)	1	100%	41.3	5.148	118.5	Severe
	2		45.3	4.490	112.7	
	3		30.3	4.236	93.8	
	mean		39.0	4.625	108.3	
	SD		7.8	0.471	12.9	
	%CV		19.9	10.2	11.9	
Butyl cellulosolve - Lab 2 (2)	1	100%	38.3	4.829	110.7	
	2		45.3	4.106	106.9	
	3		45.3	4.832	117.8	
	mean		43.0	4.589	111.8	
	SD		4.0	0.418	5.5	
	%CV		9.4	9.1	4.9	
Butyl cellulosolve - Lab 3 (1)	1	100%	36.7	3.490	89.1	Severe
	2		37.7	4.865	110.7	
	3		38.7	3.085	85.0	
	mean		37.7	3.813	94.9	
	SD		1.0	0.933	13.8	
	%CV		2.7	24.5	14.5	
Butyl cellulosolve - Lab 3 (2)	1	100%	30.7	3.474	82.8	Severe
	2		40.7	3.204	88.8	
	3		41.7	5.414	122.9	
	mean		37.7	4.031	98.2	
	SD		6.1	1.206	21.6	
	%CV		16.1	29.9	22.0	

**Intralaboratory CV Analysis of BCOP -  
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Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
4-Carboxybenzaldehyde - Lab 1 (1)	1	100%	50.0	0.036	50.5	Moderate
	2		44.0	0.040	44.6	
	3		45.0	0.074	46.1	
	mean		46.3	0.050	47.1	
	SD		3.2	0.021	3.1	
	%CV		6.9	41.8	6.5	
4-Carboxybenzaldehyde - Lab 1 (2)	1	100%	44.7	0.044	45.4	Moderate
	2		49.7	0.057	50.6	
	3		44.7	0.072	45.8	
	mean		46.4	0.058	47.3	
	SD		2.9	0.014	2.9	
	%CV		6.2	24.3	6.1	
4-Carboxybenzaldehyde - Lab 2 (1)	1	100%	57.7	0.022	58.0	Moderate
	2		54.7	-0.001	54.7	
	3		48.7	0.016	48.9	
	mean		53.7	0.012	53.9	
	SD		4.6	0.012	4.6	
	%CV		8.5	96.7	8.6	
4-Carboxybenzaldehyde - Lab 2 (2)	1	100%	49.7	0.000	49.7	Moderate
	2		49.7	0.001	49.7	
	3		43.7	0.004	43.8	
	mean		47.7	0.002	47.7	
	SD		3.5	0.002	3.4	
	%CV		7.3	124.9	7.1	
4-Carboxybenzaldehyde - Lab 3 (1)	1	100%	37.3	0.031	37.8	Moderate
	2		42.3	0.003	42.3	
	3		46.3	0.005	46.4	
	mean		42.0	0.013	42.2	
	SD		4.5	0.016	4.3	
	%CV		10.7	120.2	10.2	
4-Carboxybenzaldehyde - Lab 3 (2)	1	100%	45.3	0.030	45.8	Moderate
	2		37.3	0.041	37.9	
	3		41.3	0.035	41.8	
	mean		41.3	0.035	41.8	
	SD		4.0	0.006	4.0	
	%CV		9.7	15.6	9.4	
Methyl ethyl ketone - Lab 1 (1)	1	100%	64.3	2.734	105.3	Severe
	2		59.3	2.640	98.9	
	3		59.3	4.174	121.9	
	mean		61.0	3.183	108.7	
	SD		2.9	0.860	11.9	
	%CV		4.7	27.0	10.9	
Methyl ethyl ketone - Lab 1 (2)	1	100%	54.3	1.909	82.9	Severe
	2		65.3	2.155	97.6	
	3		66.3	3.880	124.5	
	mean		62.0	2.648	101.7	
	SD		6.7	1.074	21.1	
	%CV		10.7	40.6	20.8	
Methyl ethyl ketone - Lab 2 (1)	1	100%	45.3	1.658	70.2	Severe
	2		54.3	2.408	90.4	
	3		43.3	1.052	59.1	
	mean		47.6	1.706	73.2	
	SD		5.9	0.679	15.9	
	%CV		12.3	39.8	21.7	
Methyl ethyl ketone - Lab 2 (2)	1	100%	46.3	0.989	61.1	Severe
	2		50.3	1.386	71.1	
	3		47.3	1.584	71.1	
	mean		48.0	1.320	67.8	
	SD		2.1	0.303	5.8	
	%CV		4.3	23.0	8.5	
Methyl ethyl ketone - Lab 3 (1)	1	100%	55.0	1.277	74.2	Severe
	2		51.0	1.218	69.3	
	3		61.0	0.420	67.3	
	mean		55.7	0.972	70.3	
	SD		5.0	0.479	3.6	
	%CV		9.0	49.3	5.1	

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Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
Methyl ethyl ketone - Lab 3 (2)	1	100%	55.7	1.227	74.1	Severe
	2		52.7	0.947	66.9	
	3		54.7	1.660	79.6	
	mean		54.4	1.278	73.5	
	SD		1.5	0.359	6.4	
	%CV		2.8	28.1	8.7	
TritonX100 - Lab 1 (1)	1	5%	1.7	0.388	7.5	Mild
	2		0.7	0.158	3.1	
	3		1.7	0.347	6.9	
	mean		1.4	0.298	5.8	
	SD		0.6	0.123	2.4	
	%CV		42.2	41.2	40.9	
TritonX100 - Lab 1 (2)	1	5%	0.7	0.162	3.1	Mild
	2		-0.3	0.191	2.6	
	3		-0.3	0.324	4.6	
	mean		0.0	0.226	3.4	
	SD		0.6	0.086	1.0	
	%CV		1732.1	38.3	30.3	
TritonX100 - Lab 2 (1)	1	5%	3.3	0.025	3.7	Mild
	2		4.3	0.026	4.7	
	3		2.3	0.019	2.6	
	mean		3.3	0.023	3.7	
	SD		1.0	0.004	1.1	
	%CV		30.3	16.2	28.6	
TritonX100 - Lab 2 (2)	1	5%	0.3	0.040	0.9	Mild
	2		2.3	0.036	2.8	
	3		1.3	0.029	1.7	
	mean		1.3	0.035	1.8	
	SD		1.0	0.006	1.0	
	%CV		76.9	15.9	53.0	
TritonX100 - Lab 3 (1)	1	5%	3.7	0.033	4.2	Mild
	2		1.7	0.015	1.9	
	3		2.7	0.021	3.0	
	mean		2.7	0.023	3.0	
	SD		1.0	0.009	1.2	
	%CV		37.0	39.8	37.9	
TritonX100 - Lab 3 (2)	1	5%	0.7	0.035	1.2	Mild
	2		1.7	0.052	2.5	
	3		2.7	0.027	2.1	
	mean		1.7	0.038	1.9	
	SD		1.0	0.013	0.7	
	%CV		58.8	33.6	34.4	
Propyl-4-hydroxybenzoate - Lab 1 (1)	1	100%	4.0	0.006	4.1	Mild
	2		4.0	0.007	4.1	
	3		7.0	0.027	7.4	
	mean		5.0	0.013	5.2	
	SD		1.7	0.012	1.9	
	%CV		34.6	88.8	36.6	
Propyl-4-hydroxybenzoate - Lab 1 (2)	1	100%	4.7	0.006	4.8	Mild
	2		3.7	0.034	4.2	
	3		1.7	0.009	1.8	
	mean		3.4	0.016	3.6	
	SD		1.5	0.015	1.6	
	%CV		45.4	94.1	44.1	
Propyl-4-hydroxybenzoate - Lab 2 (1)	1	100%	7.7	0.001	7.7	Mild
	2		11.7	0.018	12.0	
	3		12.7	0.084	14.0	
	mean		10.7	0.034	11.2	
	SD		2.6	0.044	3.2	
	%CV		24.7	127.7	28.7	
Propyl-4-hydroxybenzoate - Lab 2 (2)	1	100%	7.7	0.016	7.9	Mild
	2		6.7	0.051	7.5	
	3		6.7	0.001	6.7	

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Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
	mean		7.0	0.023	7.4	
	SD		0.6	0.026	0.6	
	%CV		8.2	113.2	8.3	
Propyl-4-hydroxybenzoate - Lab 3 (1)	1	100%	5.3	0.034	5.8	
	2		4.3	0.037	4.9	Mild
	3		12.3	0.012	12.5	
	mean		7.3	0.028	7.7	
	SD		4.4	0.014	4.2	
	%CV		59.7	49.3	53.7	
Propyl-4-hydroxybenzoate - Lab 3 (2)	1	100%	5.3	0.099	6.8	
	2		5.3	0.008	5.4	Mild
	3		6.3	0.014	6.5	
	mean		5.6	0.040	6.2	
	SD		0.6	0.051	0.7	
	%CV		10.2	126.2	11.8	
Tween20 - Lab 1 (1)	1	100%	0.7	0.001	0.7	
	2		-0.3	-0.001	-0.3	Mild
	3		0.7	0.003	0.7	
	mean		0.4	0.001	0.4	
	SD		0.6	0.002	0.6	
	%CV		157.5	200.0	157.5	
Tween20 - Lab 1 (2)	1	100%	0.7	0.003	0.7	
	2		-0.3	0.010	-0.2	Mild
	3		0.7	-0.005	0.6	
	mean		0.4	0.003	0.4	
	SD		0.6	0.008	0.5	
	%CV		157.5	281.5	134.5	
Tween20 - Lab 2 (1)	1	100%	0.3	0.016	0.5	
	2		0.3	-0.005	0.2	Mild
	3		0.3	-0.003	0.3	
	mean		0.3	0.003	0.3	
	SD		0.0	0.012	0.2	
	%CV		0.0	434.6	45.8	
Tween20 - Lab 2 (2)	1	100%	1.3	0.000	1.3	
	2		0.0	0.000	0.0	Mild
	3		0.3	0.015	0.5	
	mean		0.5	0.005	0.6	
	SD		0.7	0.009	0.7	
	%CV		127.6	173.2	109.3	
Tween20 - Lab 3 (1)	1	100%	0.0	0.042	0.6	
	2		0.0	0.007	0.1	Mild
	3		0.0	0.017	0.3	
	mean		0.0	0.022	0.3	
	SD		0.0	0.018	0.3	
	%CV		0.0	81.9	75.5	
Tween20 - Lab 3 (2)	1	100%	0.0	0.000	0.0	
	2		0.0	0.000	0.0	Mild
	3		1.0	0.026	1.4	
	mean		0.3	0.009	0.5	
	SD		0.6	0.015	0.8	
	%CV		173.2	173.2	173.2	
Glycerol - Lab 1 (1)	1	100%	0.3	0.019	0.6	
	2		0.3	0.006	0.4	Mild
	3		1.3	0.010	1.5	
	mean		0.6	0.012	0.8	
	SD		0.6	0.007	0.6	
	%CV		91.2	57.1	70.3	
Glycerol - Lab 1 (2)	1	100%	1.0	0.015	1.2	
	2		1.0	0.011	1.2	Mild
	3		0.0	-0.002	1.0	
	mean		0.7	0.008	1.1	
	SD		0.6	0.009	0.1	
	%CV		86.6	111.1	10.2	

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Substance - Lab No. (Experiment No.)	Cornea number	Concentration	Opacity	Permeability	<i>In Vitro</i> Score <sup>1</sup>	Prediction
Glycerol - Lab 2 (1)	1	100%	0.0	0.000	0.0	Mild
	2		1.3	0.000	1.2	
	3		0.3	0.000	0.3	
	mean		0.5	0.000	0.5	
	SD		0.7	0.000	0.6	
	%CV		127.6	0.0	124.9	
Glycerol - Lab 2 (2)	1	100%	1.3	-0.006	1.2	Mild
	2		0.3	-0.004	0.2	
	3		0.3	-0.006	0.2	
	mean		0.6	-0.005	0.5	
	SD		0.6	0.001	0.6	
	%CV		91.2	-21.7	108.3	
Glycerol - Lab 3 (1)	1	100%	0.7	-0.007	0.6	Mild
	2		0.7	0.002	0.7	
	3		1.7	-0.004	1.6	
	mean		1.0	-0.003	1.0	
	SD		0.6	0.005	0.6	
	%CV		55.9	-152.8	57.0	
Glycerol - Lab 3 (2)	1	100%	0.7	-0.001	0.7	Mild
	2		0.7	0.002	0.7	
	3		0.7	0.020	1.0	
	mean		0.7	0.007	0.8	
	SD		0.0	0.011	0.2	
	%CV		0.0	162.3	21.7	
Abbreviations: CV = Coefficient of variation; SD =Standard deviation.						
<sup>1</sup> <i>In Vitro</i> Score = Opacity + (15 x permeability value)						