SUPPORTING INFORMATION

Table S1.

Average UVC reflectance (R_a) (expressed as mean $\pm$ SD; SD: standard deviation) of contact lenses new (zero time) and after 8, 24 and 168 hours of storage in the different lens care solutions.

	New		Renu	OptiFree	BioTrue	AOSept	p
			UVC R_a (%) (240-280 nm)				
Senofilcon A	13.55±3.28	8h	11.53±2.42	10.33±2.21	10.34±2.09	11.75±2.53	**0.002**
		24h	11.40±2.65	11.15±2.67	11.13±2.56	11.46±2.69	0.878
		168h	12.53±3.09	11.63±2.72	11.17±2.64	12.66±2.95	**0.012**
Lotrafilcon B	13.70±3.05	8h	13.81±2.67	13.31±3.08	12.70±2.73	13.10±2.92	0.137
		24h	11.71±2.36	12.10±2.54	11.63±2.40	12.04±2.60	0.603
		168h	12.41±2.27	12.75±2.46	12.98±2.67	12.94±2.36	0.671
Balafilcon A	13.67±3.06	8h	12.56±2.70	12.79±2.97	13.13±3.04	12.41±2.66	0.688
		24h	12.38±2.92	12.52±2.90	12.05±2.68	12.22±2.77	0.770
		168h	11.78±2.70	11.39±2.50	12.06±2.60	11.09±2.56	0.118
Comfilcon A	14.06±2.79	8h	12.05±2.24	13.64±2.87	11.70±2.29	10.71±2.08	**0.006**
		24h	12.84±2.58	12.46±2.49	12.12±2.39	11.84±2.44	0.148
		168h	13.64±2.87	12.83±2.82	13.10±2.51	12.17±2.45	**0.020**
Omafilcon A	14.57±3.08	8h	11.50±2.13	11.02±2.05	10.96±1.78	11.64±2.43	0.386
		24h	12.72±2.42	12.45±2.47	12.97±2.46	12.36±2.42	0.529
		168h	13.20±2.44	13.20±2.76	12.24±2.31	12.69±2.48	0.183

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S2.

Average UVB reflectance (R_a) (expressed as mean $\pm$ SD; SD: standard deviation) of contact lenses new (zero time) and after 8, 24 and 168 hours of storage in the different lens care solutions.

	New		Renu	OptiFree	BioTrue	AOSept	p
			UVB R_a (%) (280-315 nm)				
Senofilcon A	8.40±3.28	8h	7.56±0.42	6.80±0.46	6.82±0.36	11.75±2.53	**0.002**
		24h	7.44±0.54	7.20±0.57	7.31±0.43	11.46±2.69	0.878
		168h	7.89±0.53	7.48±0.56	7.21±0.50	12.66±2.95	**0.012**
Lotrafilcon B	9.47±0.51	8h	9.54±0.58	8.95±0.43	8.52±0.51	9.07±0.48	**<0.001**
		24h	8.31±0.46	8.51±0.41	8.15±0.55	8.30±0.42	**0.040**
		168h	8.84±0.39	8.89±0.42	9.16±0.50	9.38±0.45	**<0.001**
Balafilcon A	9.06±0.63	8h	8.49±0.42	8.59±0.52	8.74±0.55	8.43±0.45	**0.008**
		24h	8.42±0.52	8.42±0.51	8.13±0.38	8.16±0.54	**0.035**
		168h	7.96±0.39	7.80±0.45	8.32±0.52	7.61±0.41	0.128
Comfilcon A	9.59±0.75	8h	8.50±0.43	8.16±0.37	8.23±0.43	7.76±0.42	**<0.001**
		24h	9.00±0.55	8.66±0.50	8.32±0.54	8.34±0.43	**<0.001**
		168h	9.45±0.45	8.72±0.41	8.96±0.47	8.50±0.46	**<0.001**
Omafilcon A	10.01±0.66	8h	8.29±0.40	7.89±0.34	7.81±0.42	8.12±0.39	**<0.001**
		24h	8.89±0.40	8.80±0.54	8.86±0.41	8.52±0.42	**0.002**
		168h	9.13±0.43	9.09±0.40	8.52±0.43	8.75±0.48	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S3.

Average UVA reflectance (R_a) (expressed as mean ± SD; SD: standard deviation) of contact lenses new (zero time) and after 8, 24 and 168 hours of storage in the different lens care solutions.

			UVA R_a (%) (315-400 nm)				
	New		Renu	OptiFree	BioTrue	AOSept	p
Senofilcon A	6.49±1.11	8h	5.86±0.88	5.29±0.73	5.41±0.70	6.13±0.87	**<0.001**
		24h	5.69±0.89	5.53±0.90	5.68±0.87	5.58±0.99	0.103
		168h	5.96±1.10	5.60±0.92	5.58±0.84	6.24±1.10	**<0.001**
Lotrafilcon B	7.56±1.38	8h	7.43±1.47	6.91±1.38	6.59±1.29	7.03±1.34	**<0.001**
		24h	6.47±1.13	6.73±1.13	6.20±1.15	6.47±1.20	**0.001**
		168h	7.10±1.21	6.94±1.31	7.13±1.32	7.41±1.28	**0.006**
Balafilcon A	7.29±1.35	8h	6.90±1.26	6.86±1.25	6.97±1.32	6.87±1.19	0.746
		24h	6.62±1.20	6.68±1.19	6.57±1.20	6.68±1.09	0.744
		168h	6.60±1.07	6.28±1.06	6.68±1.17	6.07±1.03	**<0.001**
Comfilcon A	7.26±1.40	8h	6.58±1.13	6.39±1.10	6.29±1.12	6.09±1.01	**0.018**
		24h	6.81±1.36	6.66±1.21	6.38±1.20	6.51±1.20	**<0.001**
		168h	7.17±1.45	6.71±1.33	6.83±1.33	6.46±1.32	**<0.001**
Omafilcon A	7.72±1.50	8h	6.53±1.11	6.34±1.05	6.20±1.05	6.35±1.13	**0.029**
		24h	7.04±1.27	6.82±1.25	6.94±1.29	6.81±1.26	0.274
		168h	7.39±1.28	7.06±1.25	6.70±1.18	6.97±1.22	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S4.

			Visible R_a (%) (315-400 nm)				
	New		Renu	OptiFree	BioTrue	AOSept	p
Senofilcon A	4.10±0.45	8h	4.03±0.42	3.85±0.34	4.08±0.33	4.34±0.42	**<0.001**
		24h	3.81±0.37	3.58±0.40	3.73±0.38	3.43±0.37	**<0.001**
		168h	3.43±0.40	3.61±0.38	3.80±0.37	3.75±0.41	**<0.001**
Lotrafilcon B	4.28±0.43	8h	4.03±0.39	3.58±0.43	3.42±0.42	3.75±0.44	**<0.001**
		24h	3.63±0.41	3.88±0.39	3.27±0.39	3.42±0.43	**<0.001**
		168h	4.07±0.35	3.79±0.36	3.95±0.37	4.20±0.39	**<0.001**
Balafilcon A	4.24±0.30	8h	3.97±0.31	3.84±0.36	3.88±0.32	4.20±0.32	**<0.001**
		24h	3.78±0.30	3.90±0.32	3.78±0.29	4.05±0.33	**<0.001**
		168h	4.07±0.29	3.77±1.06	3.91±0.31	3.57±0.29	**<0.001**
Comfilcon A	4.08±0.29	8h	3.83±0.30	3.76±0.29	3.52±0.28	3.56±0.32	**<0.001**
		24h	3.65±0.33	3.76±0.33	3.52±0.28	3.68±0.28	**<0.001**
		168h	3.67±0.31	3.67±0.31	3.68±0.34	3.47±0.28	**<0.001**
Omafilcon A	4.05±0.43	8h	3.71±0.37	3.67±0.34	3.61±0.33	3.51±0.35	**<0.001**
		24h	3.84±0.43	3.79±0.35	3.87±0.33	3.86±0.34	**<0.001**

| | | 168h | 4.20±0.38 | 3.96±0.37 | 3.77±0.35 | 3.99±0.36 | **<0.001** |

Average Visible reflectance (R_a) (expressed as mean ± SD; SD: standard deviation) of contact lenses new (zero time) and after 8, 24 and 168 hours of storage in the different lens care solutions.

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S5.

Average UVC absorbance (A_a) (expressed as mean ± SD; SD: standard deviation) of lens care solutions new (zero time) and after 8, 24 and 168 hours of storage with the different contact lenses.

						UVC A_a (%) (240-280 nm)	
	New		Senofilcon A	Lotrafilcon B	Balafilcon A	Comfilcon A	Omafilcon A	p
Renu	0.78±0.94	8h	0.76±0.91	0.79±0.91	0.78±0.90	0.85±0.92	0.79±0.88	0.285
		24h	0.78±0.92	0.81±0.92	0.80±0.92	0.82±0.91	0.82±0.90	0.602
		168h	0.83±0.97	0.82±0.93	0.81±0.94	0.79±0.90	0.79±0.89	0.913
OptiFree	0.52±0.75	8h	0.54±0.75	0.61±0.77	0.58±0.76	0.59±0.74	0.55±0.74	0.091
		24h	0.58±0.76	0.60±0.76	0.58±0.76	0.58±0.76	0.60±0.77	0.597
		168h	0.62±0.79	0.61±0.78	0.59±0.77	0.59±0.77	0.60±0.79	0.397
BioTrue	0.29±0.32	8h	0.29±0.31	0.35±0.33	0.31±0.30	0.32±0.34	0.31±0.33	0.062
		24h	0.34±0.33	0.36±0.34	0.33±0.32	0.34±0.33	0.32±0.33	0.523
		168h	0.37±0.34	0.37±0.34	0.35±0.34	0.33±0.33	0.32±0.34	0.052
AOSept	0.10±0.04	8h	0.09±0.04	0.11±0.06	0.11±0.05	0.10±0.06	0.11±0.04	**<0.001**
		24h	0.09±0.04	0.11±0.05	0.12±0.05	0.09±0.04	0.18±0.03	**<0.001**
		168h	0.11±0.05	0.16±0.06	0.18±0.06	0.17±0.06	0.12±0.04	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S6.

Average UVB absorbance (A_a) (expressed as mean ± SD; SD: standard deviation) of lens care solutions new (zero time) and after 8, 24 and 168 hours of storage with the different contact lenses.

						UVB A_a (%) (200-280 nm)	
	New		Senofilcon A	Lotrafilcon B	Balafilcon A	Comfilcon A	Omafilcon A	p
Renu	0.01±0.00	8h	0.02±0.00	0.03±0.01	0.04±0.01	0.07±0.01	0.04±0.01	**<0.001**
		24h	0.03±0.01	0.04±0.01	0.04±0.01	0.05±0.01	0.04±0.01	**<0.001**
		168h	0.04±0.01	0.04±0.01	0.03±0.01	0.04±0.01	0.04±0.01	**0.001**
OptiFree	0.01±0.00	8h	0.02±0.00	0.04±0.01	0.04±0.01	0.06±0.01	0.03±0.01	**<0.001**
		24h	0.04±0.01	0.04±0.01	0.04±0.01	0.04±0.01	0.05±0.01	**<0.001**
		168h	0.06±0.01	0.06±0.01	0.04±0.01	0.04±0.01	0.04±0.01	**<0.001**
BioTrue	0.02±0.00	8h	0.03±0.01	0.05±0.01	0.05±0.01	0.04±0.01	0.04±0.01	**<0.001**
		24h	0.06±0.01	0.05±0.01	0.06±0.01	0.05±0.01	0.05±0.01	**<0.001**
		168h	0.07±0.01	0.05±0.01	0.06±0.01	0.05±0.01	0.04±0.01	**<0.001**
AOSept	0.03±0.01	8h	0.01±0.01	0.03±0.01	0.03±0.01	0.02±0.01	0.03±0.01	**<0.001**
		24h	0.02±0.01	0.03±0.01	0.03±0.01	0.02±0.01	0.06±0.03	**<0.001**
		168h	0.03±0.01	0.03±0.01	0.03±0.01	0.03±0.01	0.02±0.01	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S7.

Average UVA absorbance (A_a) (expressed as mean $\pm$ SD; SD: standard deviation) of lens care solutions new (zero time) and after 8, 24 and 168 hours of storage with the different contact lenses.

UVA A_a (%) (315-400 nm)

	New		Senofilcon A	Lotrafilcon B	Balafilcon A	Comfilcon A	Omafilcon A	p
Renu	0.00±0.00	8h	0.01±0.00	0.01±0.00	0.02±0.00	0.02±0.00	0.02±0.01	**<0.001**
		24h	0.01±0.00	0.02±0.00	0.02±0.00	0.02±0.00	0.02±0.00	**<0.001**
		168h	0.02±0.00	0.02±0.00	0.02±0.00	0.02±0.00	0.02±0.00	**<0.001**
OptiFree	0.00±0.00	8h	0.01±0.00	0.02±0.01	0.02±0.01	0.03±0.01	0.01±0.01	**<0.001**
		24h	0.02±0.01	0.02±0.01	0.02±0.00	0.02±0.00	0.03±0.01	**<0.001**
		168h	0.03±0.01	0.03±0.01	0.03±0.00	0.02±0.00	0.02±0.01	**<0.001**
BioTrue	0.01±0.00	8h	0.01±0.00	0.02±0.00	0.02±0.00	0.02±0.00	0.02±0.01	**<0.001**
		24h	0.03±0.01	0.02±0.00	0.03±0.00	0.03±0.01	0.02±0.00	**<0.001**
		168h	0.04±0.01	0.03±0.01	0.03±0.00	0.03±0.01	0.02±0.00	**<0.001**
AOSept	0.01±0.00	8h	0.00±0.00	0.01±0.00	0.01±0.00	0.01±0.00	0.01±0.00	**<0.001**
		24h	0.01±0.00	0.01±0.00	0.02±0.00	0.00±0.00	0.01±0.00	**<0.001**
		168h	0.01±0.00	0.01±0.00	0.01±0.00	0.00±0.00	0.01±0.00	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).

Table S8.

Average visible absorbance (A_a) (expressed as mean $\pm$ SD; SD: standard deviation) of lens care solutions new (zero time) and after 8, 24 and 168 hours of storage with the different contact lenses.

Visible A_a (%) (400-700 nm)

	New		Senofilcon A	Lotrafilcon B	Balafilcon A	Comfilcon A	Omafilcon A	p
Renu	0.00±0.00	8h	0.00±0.00	0.01±0.00	0.01±0.00	0.03±0.00	0.01±0.00	**<0.001**
		24h	0.01±0.00	0.01±0.00	0.01±0.00	0.01±0.00	0.01±0.00	**<0.001**
		168h	0.01±0.00	0.01±0.00	0.02±0.00	0.01±0.00	0.01±0.00	**<0.001**
OptiFree	0.00±0.00	8h	0.01±0.00	0.01±0.00	0.01±0.00	0.02±0.00	0.01±0.00	**<0.001**
		24h	0.01±0.00	0.01±0.00	0.01±0.00	0.01±0.00	0.02±0.00	**<0.001**
		168h	0.02±0.00	0.02±0.00	0.02±0.00	0.01±0.00	0.01±0.00	**<0.001**
BioTrue	0.00±0.01	8h	0.00±0.00	0.01±0.00	0.01±0.00	0.01±0.00	0.01±0.00	**<0.001**
		24h	0.02±0.00	0.01±0.00	0.02±0.00	0.01±0.00	0.02±0.00	**<0.001**
		168h	0.02±0.00	0.02±0.00	0.03±0.00	0.01±0.00	0.01±0.00	**<0.001**
AOSept	0.01±0.00	8h	0.00±0.00	0.01±0.00	0.01±0.00	0.00±0.00	0.00±0.00	**<0.001**
		24h	0.01±0.00	0.01±0.00	0.01±0.00	0.00±0.00	0.01±0.00	**<0.001**
		168h	0.01±0.00	0.01±0.00	0.01±0.00	0.00±0.00	0.00±0.00	**<0.001**

Statistically significant differences between the groups are presented in bold (p≤0.05).