

Table SIII. Reflectance confocal microscopy evaluation parameters after ultraviolet B and A (UVB and UVA) exposition comparing irradiated unprotected skin and irradiated protected skin

	Parakeratosis		Spongiosis		Sunburn cells		Microvesicles		Disrupted honeycomb		Small bright epidermal cells		Dermat-epidermal junction obscuration		Non-edged dermal papillae		Enlarged dermal papillae		Blood vessel dilatation		
	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	Non-irr. n (%)	With product n (%)	
SUBMED																					
0	36 (100)	35 (100)	33 (91.7)	35 (100)	34 (94.4)	35 (100)	36 (100)	35 (100)	34 (94.4)	35 (100)	27 (75)	35 (100)	35 (97.2)	35 (100)	34 (94.4)	35 (100)	34 (94.4)	35 (100)	32 (88.9)	35 (100)	n.s.
1	0	1 (8.3)	0	0	2 (5.6)	0	0	0	2 (5.6)	0	8 (22.2)	0	1 (2.8)	0	2 (5.6)	0	2 (5.6)	0	4 (11.2)	0	n.s.
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MED																					
0	29 (85.3)	35 (97.2)	2 (5.9)	36 (100)	21 (61.8)	36 (100)	34 (100)	36 (100)	13 (38.2)	36 (100)	2 (5.9)	31 (86.1)	26 (76.5)	36 (100)	26 (76.5)	36 (100)	26 (76.5)	36 (100)	14 (41.2)	35 (97.2)	0.000
1	4 (11.8)	1 (2.8)	20 (58.8)	0	12 (35.3)	0	0	0	13 (38.2)	0	21 (61.8)	5 (13.9)	8 (23.5)	0	8 (23.5)	0	17 (50)	0	20 (58.8)	1 (2.8)	0.000
2	1 (2.9)	0	12 (35.3)	0	1 (2.9)	0	0	0	8 (23.5)	0	11 (32.4)	0	0	0	0	0	0	0	0	0	0.002
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.002
2 MED																					
0	24 (68.6)	36 (100)	0	36 (100)	8 (22.9)	35 (97.2)	25 (71.4)	36 (100)	3 (8.6)	36 (100)	0	29 (80.6)	21 (60.0)	33 (91.7)	17 (48.6)	36 (100)	12 (34.3)	36 (100)	11 (31.4)	34 (94.4)	0.000
1	10 (28.6)	0	15 (42.9)	0	16 (45.7)	1 (2.8)	6 (17.1)	0	12 (34.3)	0	14 (40.0)	7 (19.4)	14 (40.0)	3 (8.3)	18 (51.4)	0	23 (65.7)	0	24 (68.6)	2 (5.6)	0.000
2	1 (2.9)	0	17 (48.6)	0	10 (28.6)	0	3 (8.6)	0	14 (40.0)	0	17 (48.6)	0	0	0	0	0	0	0	0	0	0.000
3	0	0	3 (8.6)	0	1 (2.9)	0	1 (2.9)	0	6 (17.1)	0	4 (11.4)	0	0	0	0	0	0	0	0	0	0.000
UVA 15 J																					
0	36 (100)	35 (100)	31 (86.1)	35 (100)	35 (97.2)	35 (100)	36 (100)	35 (100)	35 (97.2)	34 (97.1)	27 (75.0)	31 (88.6)	36 (100)	35 (100)	36 (100)	35 (100)	33 (91.7)	35 (100)	32 (88.9)	35 (100)	n.s.
1	0	5 (13.9)	0	0	1 (2.8)	0	0	0	1 (2.8)	1 (2.9)	9 (25.0)	4 (11.4)	0	0	0	0	3 (8.3)	0	4 (11.1)	0	n.s.
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.
UVA 20 J																					
0	28 (93.3)	31 (100)	28 (93.3)	29 (93.5)	29 (96.7)	31 (100)	30 (100)	31 (100)	30 (100)	31 (100)	24 (80.0)	29 (93.5)	30 (100)	31 (100)	30 (100)	31 (100)	29 (96.7)	31 (100)	28 (93.3)	31 (100)	n.s.
1	2 (6.7)	0	2 (6.7)	2 (6.5)	1 (3.3)	0	0	0	0	0	6 (20.0)	2 (6.5)	0	0	0	0	1 (3.3)	0	2 (6.7)	0	n.s.
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.
UVA 25 J																					
0	30 (100)	31 (96.9)	26 (86.7)	30 (93.8)	30 (100)	32 (100)	30 (100)	32 (100)	29 (96.7)	32 (100)	20 (66.7)	31 (96.9)	30 (100)	32 (100)	30 (100)	32 (100)	29 (96.7)	31 (96.9)	29 (96.7)	31 (96.9)	n.s.
1	0	1 (3.1)	4 (13.3)	2 (6.2)	0	0	0	0	1 (3.3)	0	10 (33.3)	1 (3.1)	0	0	0	0	1 (3.3)	1 (3.1)	1 (3.3)	1 (3.1)	n.s.
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n.s.

irr. irradiated; n.s.: not significant; SUBMED: suberythematous level; MED: minimal erythema dose.