

Contact: Amit Lotan

Product: Safe Sea

Batch/Formula No: SEA 1075

Date Rec: 13/5/13

Date of Test: 14/5/13

Protocol: The sample was evaluated according to the method described in ISO 24443 (2012)

Instrument: Shimadzu UV-2450 Spectrophotometer fitted with Integrating Sphere Device

Substrate: Moulded PMMA 6 um Helioscreen

Substrate Ref: 125

S2 Ref. Batch: J110

S2 Ref Test Date: 30/4/2013

S2 Mean: 13.9

S2 S.D. 0.3

In-Vivo SPF: 51.4 static as determined (Full Panel)

Quantity Applied: 1.30 mg/sq cm:

UVA irradiance: 7.2 mW/cm² [requirement 5 to 14 mW/cm²] **Plate Temperature:** 34 °C

Pre-irradiation Coeff of Calib. 1.059

Plate Drying: 35oC for 30 minutes

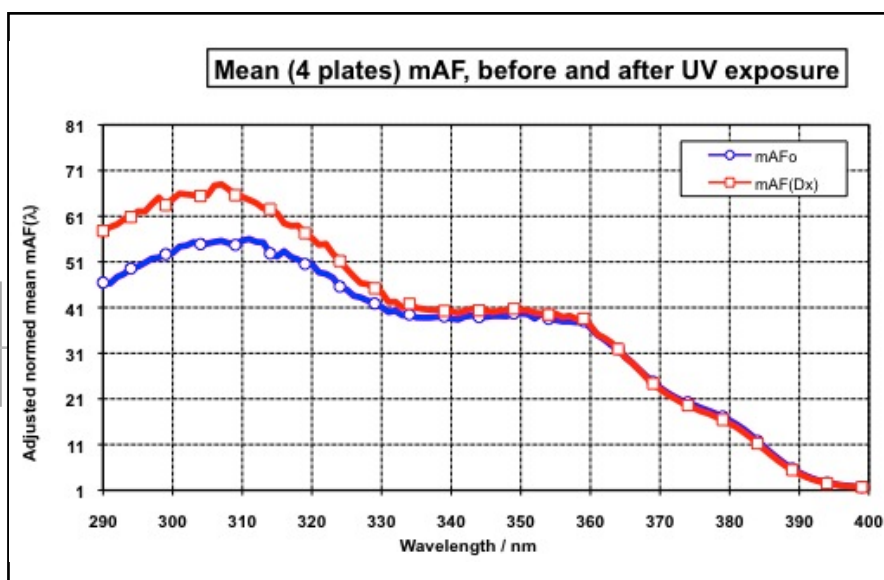
UVA exposure Time: hh:mm
01:05

UVA exposure Dose: 28.1 J/ sq.cm

Constant C: 0.997

ISO in vitro UVAPF ₀ : (pre irradiation)	26.82
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ISO in vitro UVAPF _{Dx} : (post irradiation) C.I. %:	26.79 10.9% (limit 17%)
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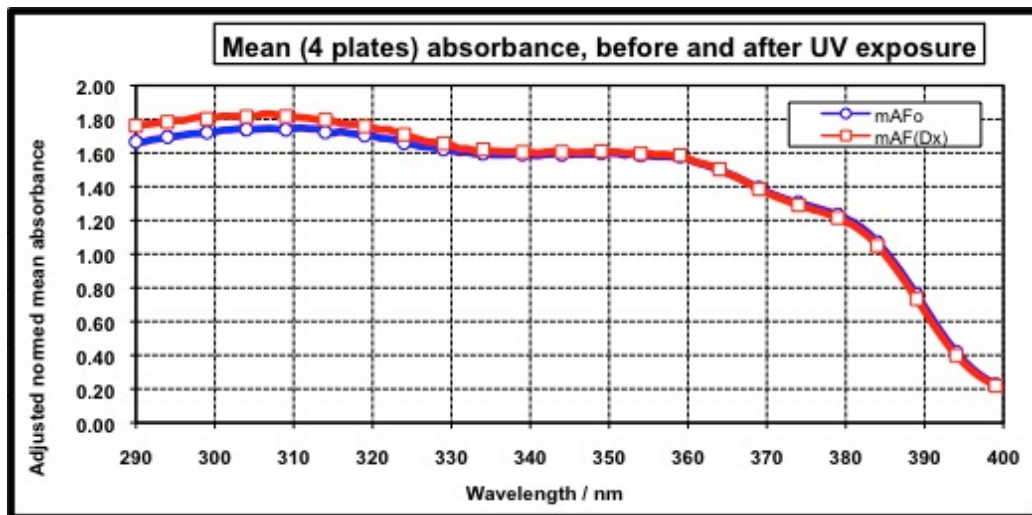


Comments:

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Final UV Absorbance			
WL (nm)	Absorbance	Absorbance	Absorbance
290	1.761817	330	1.6475
291	1.767919	331	1.62531
292	1.772221	332	1.62585
293	1.780349	333	1.61258
294	1.783965	334	1.62141
295	1.792679	335	1.61207
296	1.79242	336	1.60927
297	1.803777	337	1.60736
298	1.813632	338	1.60815
299	1.802264	339	1.60509
300	1.8113	340	1.60443
301	1.819277	341	1.59933
302	1.817983	342	1.60574
303	1.816897	343	1.60978
304	1.815845	344	1.60598
305	1.816896	345	1.60583
306	1.830774	346	1.60198
307	1.832502	347	1.60564
308	1.825598	348	1.60753
309	1.816945	349	1.60972
310	1.814384	350	1.60736
311	1.810096	351	1.60651
312	1.805365	352	1.60061
313	1.797558	353	1.59858
314	1.796313	354	1.59576
315	1.789927	355	1.59835
316	1.774023	356	1.58999
317	1.769995	357	1.59313
318	1.770478	358	1.58595
319	1.758058	359	1.58612
320	1.749773	360	1.56926
321	1.738366	361	1.54519
322	1.739906	362	1.53596
323	1.722751	363	1.52285
324	1.709126	364	1.5041
325	1.694288	365	1.47822
326	1.679582	366	1.45972
327	1.665951	367	1.43674
328	1.663731	368	1.40979
329	1.655127	369	1.38607
		370	1.36424
		371	1.34267
		372	1.32542
		373	1.30689
		374	1.2914
		375	1.27664
		376	1.26071
		377	1.24966
		378	1.23184
		379	1.21462
		380	1.19281
		381	1.16923
		382	1.13655
		383	1.09907
		384	1.05013
		385	0.99596
		386	0.93631
		387	0.87115
		388	0.80272
		389	0.73344
		390	0.66142
		391	0.5887
		392	0.52098
		393	0.45647
		394	0.40013
		395	0.35159
		396	0.30835
		397	0.27305
		398	0.24447
		399	0.21928
		400	0.19908

Signed: Craig Dennyson

Product: Safe Sea

Batch/Formula No: SEA 1075

Instrument: Shimadzu UV-2450 Spectrophotometer fitted with Integrating Sphere Device

Calibration Date: 30/4/2013

Plate Transmission Test

Plate Manufacturer: Moulded PMMA 6 um Helioscreen

Lot #: 125

nm Limits:

290	>60%	66.2 %	PASS
300	>69%	71.8 %	PASS
320	>81%	82.4 %	PASS

Spectrophotometric Wavelength Accuracy

Reference Wavelength	361 nm
Measured Wavelength	361.0 nm
Peak Value	0.469
Limit +/- 1	TRUE

Spectrophotometric Linearity Test

	Limit	
Dynamic Range Limit	2.6	PASS min 2.2
Linearity Limit	97.7 %	PASS R ₂ = 85% min

Calibrated by: Craig Dennyson

Contact: Amit Lotan

Batch/Formula No: SEA 1075

Product: Safe Sea

The sample was evaluated according to the method described in ISO 24443. Pre-irradiation of the sample was calculated based on an SPF value of 51.4 which was static as determined (Full Panel).

1. Based on Label SPF of: 50
UVAPFD_x/Label SPF = 0.535
PASS

Broad Spectrum compliance has been calculated based on the client advised intended Label SPF value of 50 and may vary if the label SPF is different. The required value is > or = 0.33 and the sample PASSES this requirement.

2. Critical Wavelength
[Post Irradiation] = 377.9 nm PASS

The Critical Wavelength was found to be equal or greater than 370nm and the product PASSES this part of the test requirement

Ratio vis Category Description for AS/NZS 2604
Performance of this sample

SPF Found	Category Description		Primary	Secondary		UVAPF Ratio "Broad Spectrum"
Tested SPF 4-14	Label SPF			Skin Care	Colour and/or Lip	
	4	Low	Compulsory	Compulsory	Optional	6.69 PASS
	6	Low	Compulsory	Compulsory	Optional	4.46 PASS
	8	Low	Compulsory	Compulsory	Optional	3.34 PASS
15-29	10	Low	Compulsory	Compulsory	Optional	2.67 PASS
	15	Medium or Moderate	Compulsory	Compulsory	Optional	1.78 PASS
	20		Compulsory	Compulsory	Optional	1.33 PASS
	25		Compulsory	Compulsory	Optional	1.07 PASS
30-59	30	High	Compulsory	Compulsory**	Compulsory	.893 PASS
	40	High	Compulsory	Compulsory**	Compulsory	.669 PASS
	50	High	Compulsory	Compulsory**	Compulsory	.535 PASS
60 or higher	50+	Very High	Compulsory	Compulsory**	Compulsory	n/a

** Moisturisers above SPF 29 may be considered not to be a Secondary Sunscreens under NICNAS requirements

This compliance report should be read in conjunction with the attached 3 pages describing the required procedure as defined in ISO 24443

Signed: Craig Dennyson

Client: Nidaria Technology Ltd

Our Ref: UV12P124-1

page 5 of 5

Contact: Amit Lotan

Batch/Formula No: SEA 1075

Product: Safe Sea

The sample was evaluated according to the method described in ISO 24443. Pre-irradiation of the sample was calculated based on the In vivo SPF value.

1. **Label SPF 50**

E.U. UVAPF_{Dx} 0.535

Label SPF

PASS

The UVAPF₀ and UVAPF_x values have been calculated based on the static as determined (Full Panel) SPF value of 51.4. The Official Journal of the European Union 22nd Sept 2006 requires that this value should be at least 0.33 and the sample PASSES this requirement. The value may vary if the label SPF is different (see chart below). Additionally, the Critical Wavelength must be 370nm or greater and the sample was found to PASS this test requirement.

2. **Critical Wavelength**

[Post Irradiation] = 377.9 nm

PASS

The Critical Wavelength was found to be equal or greater than 370nm and the product PASSES this part of the test requirement

Ratio vis Category Description for European Union Labelling

SPF Found	Category Description		Requirement	UVAPF Ratio (for varied label SPF)
Tested SPF	Label SPF			
6-14	6	Low	Compulsory	4.46 PASS
	10	Low	Compulsory	2.67 PASS
15-29	15	Medium	Compulsory	1.78 PASS
	20	or	Compulsory	1.33 PASS
	25	Moderate	Compulsory	1.07 PASS
30-59	30	High	Compulsory	.893 PASS
	50	High	Compulsory	.535 PASS
60 or higher	50+	Very High	Compulsory	n/a

This compliance report should be read in conjunction with the attached pages 1-3 describing the required procedure as defined in ISO 24443

Signed: Craig Dennyson



Dermatest

SPF Test Result Table

International SPF Test Method- 2006

Client: Nidaria Technology Ltd

Protocol: Static Testing

Product: Safe Sea SEA 1075

Expected SPF: 50

UV Source: XE

Report Reference Number: 08696

Subj N°	Test		Subjects					Results						Report P1 of 4		
	Exposure Date	Technician	Subj Code	Skin Type	MEDus secs	MEDps secs	SPFi	SPFn ¹	s(n ¹)	c(n ¹)	Cn ¹ (0.2SPFn ¹)	n	Conclusion: c(n ¹) < Cn ¹	Comments		
														Ref	MEDr	SPF
1	10/10 /08	H.FENG	797	II	14	788	56.3							P2	222	15.9
2	13/10 /08	H.FENG	794	II	12	600	50.0							P2	185	15.4
3	14/10 /08	H.FENG	651	II	12	612	51.0							P2	180	15.0
4	16/10 /08	H.FENG	688	II	16	826	51.6							P2	255	15.9
5	21/10 /08	H.FENG	767	II	11	572	52.0							P2	179	16.3
6	23/10 /08	H.FENG	612	I	17	894	52.6							P2	255	15.0
7	6/11 /08	H.FENG	396	III	11	572	52.0							P2	165	15.0
8	7/11 /08	H.FENG	824	II	11	506	46.0							P2	165	15.0
9	10/11 /08	H.FENG	327	III	15	765	51.0							P2	228	15.2
10	11/11 /08	H.FENG	611	III	14	720	51.4	51.4	2.5	1.81	10.28		COMPLIES	P2	220	15.7
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

FINAL:

SPF= 51.4

s= 2.5

c= 1.81

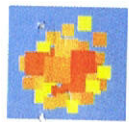
95% CI 49.6 to 53.2

n= 10

Our Reference: 08696

Client Fax: 97246750367

Signed



Dermatest

Client: **Nidaria Technology Ltd**

SPF Test Result Table

International SPF Test Method- 2006

Protocol: **Water Resistant Testing for 80 min**

Product: **Safe Sea SEA 1075**

Expected SPF: **30**

UV Source: **XE**

Report Reference Number: **08697**

Matching Static Report: **08696**

Subj N°	Test		Subjects					Results						Report P1 of 4		
	Exposure Date	Technician	Subj Code	Skin Type	MEDuw secs	MEDpw secs	SPFi	SPFn ¹	s(n ¹)	c(n ¹)	Cn ¹ (0.2SPFn ¹)	n	Conclusion: c(n ¹) < Cn ¹	Comments Ref MEDr SPFr		
1	10/10 /08	H.FENG	797	II	14	473	33.8							P2	222	15.9
2	13/10 /08	H.FENG	794	II	12	420	35.0							P2	185	15.4
3	14/10 /08	H.FENG	651	II	12	420	35.0							P2	180	15.0
4	16/10 /08	H.FENG	688	II	16	625	39.1							P2	255	15.9
5	21/10 /08	H.FENG	767	II	11	396	36.0							P2	179	16.3
6	23/10 /08	H.FENG	612	I	17	591	34.8							P2	255	15.0
7	6/11 /08	H.FENG	396	III	11	385	35.0							P2	165	15.0
8	7/11 /08	H.FENG	824	II	11	443	40.3							P2	165	15.0
9	10/11 /08	H.FENG	327	III	15	540	36.0							P2	228	15.2
10	11/11 /08	H.FENG	611	III	14	518	37.0	36.2	2.0	1.46	7.24		COMPLIES	P2	220	15.7
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
FINAL:			SPF= 36.2				s= 2.0		c= 1.46		95% CI34.7 to 37.7		n= 10			

Our Reference: **08697**

Client Fax: **97246750367**

Signed