## Market DifFerentlAtion Or CONSUMER CONFUSION?

John Staton
Eurofins | Dermatest



Cosmetics & Personal Care

#### Potential: world market



#### NO No Nos!

"NO" Claims!



sunscreen free





oil free sunscreen
paraben free sunscreen
oxybenzone free sunscreen
chemical free sunscreen
alcohol free sunscreen
best oil free sunscreen
cruelty free sunscreen
fragrance free sunscreen

Report inappropriate predictions





What's the difference between SPF30 and SPF50+?

Many Australians are surprised to learn that SPF50+ only offers marginally better protection than SPF30. SPF50+ filters out 98% of UVB radiation, while SPF30 blocks out 96.7% of UVB.

# Sun Protection Factor



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#### It not what doesn't get through that does the damage



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## **Protection Factor** Sun

$$SPF70 = 98.5\%$$



SPF70 = 98.5% = 1.5% Transmission



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### Ask the Expert: Does a High SPF Protect My Skin Better?

"An SPF 30 allows about 3 percent of UVB rays to hit your skin. An SPF of 50 allows about 2 percent of those rays through. That may seem like a small difference until you realize that the SPF 30 is allowing 50 percent more UV radiation onto your skin."





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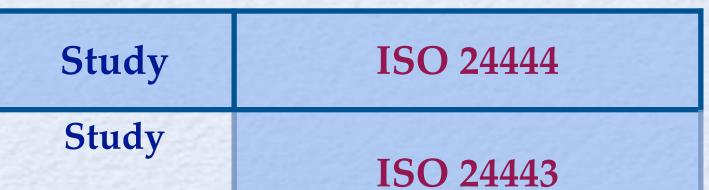


SPF 100





SPF 110







SUNPLAY

Supper Block

SPF 120

SPF  $\infty$ ?

#### LONGER SPF

TGA and AS/NZS 2604 do not permit.

Must be re-applied



Only a play on words?

SPF

Claims

[50+ equals all day protection]







#### Vitamin D Transmission





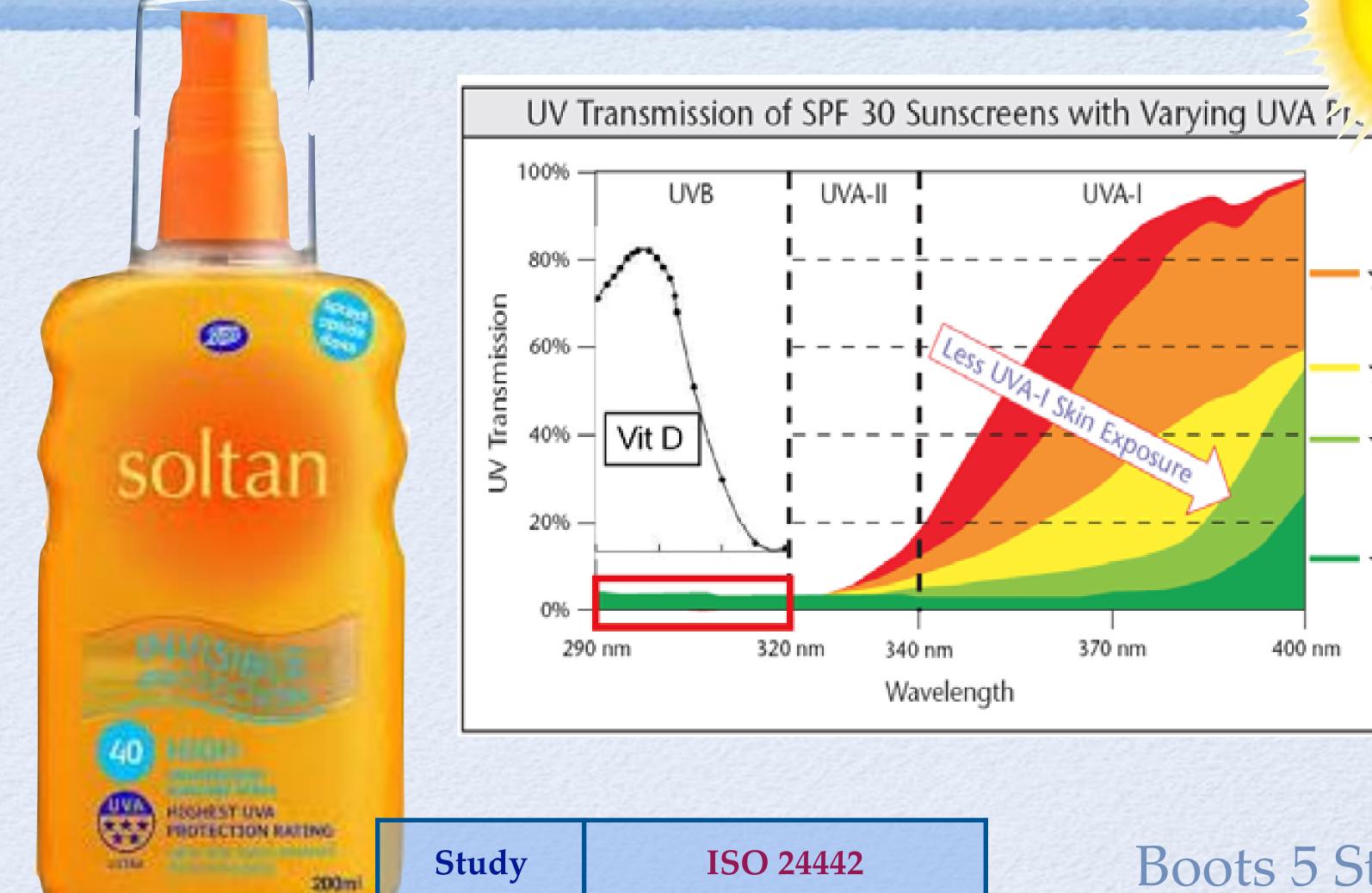
Selective UVB wavelength blocking





#### MORE STARS





UVA-I \* \* \* \* \* Less UVA-1 Skin Exposure  $\star\star$ **★★★☆** \*\*\*\* 370 nm 400 nm

Study **ISO 24442 Boots Star** 

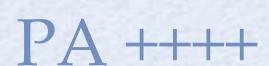
**Boots 5 Stars** 



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**Personal Care** 

#### MORE UVA







Need In Vivo UVAPF Testing

Mandated for Japan and Korea

#### UVA PROTECTION (ALONE)

The information on this page is provided only as an idication of possible results. These tests need to be performed separately. This information should not be relied upon for regulatory or marketing purposes.

ASSUMING AN IN VIVO SDF OF... 5.7

JCIA Japan, Korea and several other countries require that the UVAPF be performed In vivo. This estimated PA rating is indicative only.

Based on the post exposure mean UVAPF Value of... 4.38

The Estimated PA Value would be around... PA++

UVAPF Value	UVA Protection Grade
Less than 2 2 or more but less than 4 4 or more but less than 8 8 to less than 16 16 or greater	No UVA Protection PA+ PA++ PA+++ PA+++

EDA Broad Spectrum (C.W).

375 + / - 2

n/a SPF less than 15

**BOOTS** 

The Boots Star rating system is proprietary to Boots Ltd and permission has to be obtained for use of this mark. Indicative values are estimated below. The actual test can be performed by Dermatest if required.

Indicative Star Rating:

Based on the initial mean UVA:UVB ratio of...

0.806
and post exposure mean UVA:UVB ratio of ...

0.813

the Boots Star Rating rating for this product could be expected to be \*\*\*\*\*

[ 4 stars ]

Study	ISO 24442
Study	ISO 24443





Suggested
SPF 15
PA++++
C.W. 375
Boots \*\*\*\*\*

#### UVC PROTECTION



Originally supported by IP ex University of Adelaide?



Ozone hole story

UVC



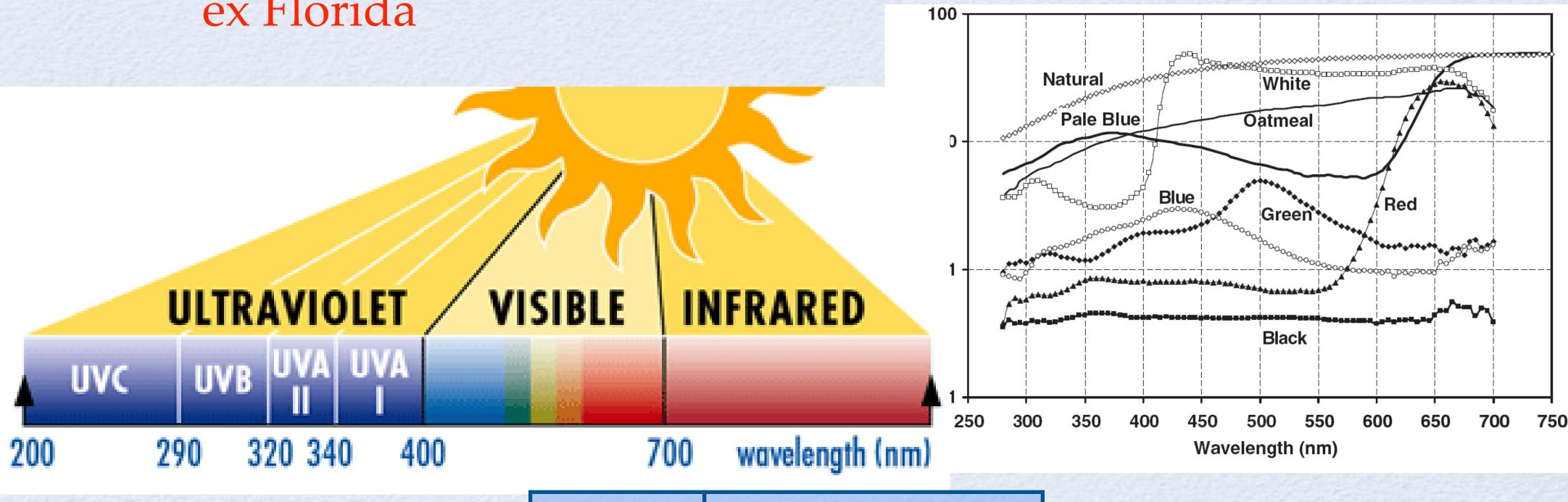


#### VISIBLE AND INFRARED

Vis IR









Study Spectrophotometric

IR Light exposure?

#### BLUE LIGHT



Blue Light from Digital Devices

Blue



#### WHOLE SPECTRUM





#### MORE WATER RESISTANT



W.R. Claims

Aust	Allowable Maximum	Measurement
Aust	4 hrs	100% of Post Immersion
USA	80 min	100% of Post Immersion
E.U.	80 min RESISTA	Static if less than 49% wash off
Mercosure	80 min	
Asean	80 min RESISTA 80 min	MT Static if less than 49% wash off
Israel	80 min	Static if less than 25% wash off

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Caronins	Cosmetics &
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Study	AS/NZS 2604
NEW	ISO 16217

#### MORE WATER RESISTANT

Water Block!





Colour patch and check Skin "stain" regression



#### ALL KINDS OF WATER

Neutrogena

wetskin



• Salt Water

Sweat

• Hard Water



Protection!



Immediate Protection

Variant ->

Study	WR in Salt Water
	WR in Hard Water
	Sweat Room







#### ALL CONDITIONS





Water Type

944



#### ALL DAY PROTECTION

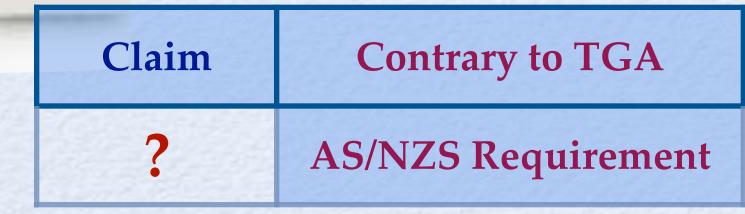


20

VERY WATER RESISTANT GOICK DRIVING More related to
 Secondary Sunscreens

appropriate for alphabet creams









#### ANTIOXIDANT



"...with Antioxidant Defenders"

- Claimed to enhance SPF
- Anti-aging Claims

Treatment yes! Protection No!

Study	In Use Multi
	Blemish Reduction



#### ANTI-INFLAMMATORY

"Shields skin against environmental aggressors with an antioxidant boost."

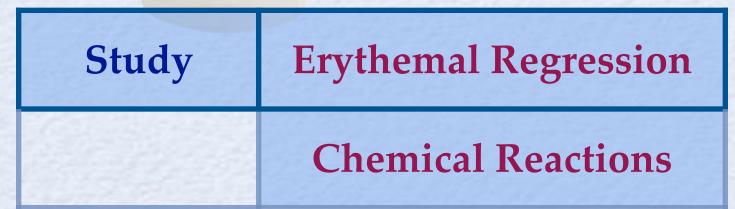




Vitamin C and Green Tea,

Aust L?

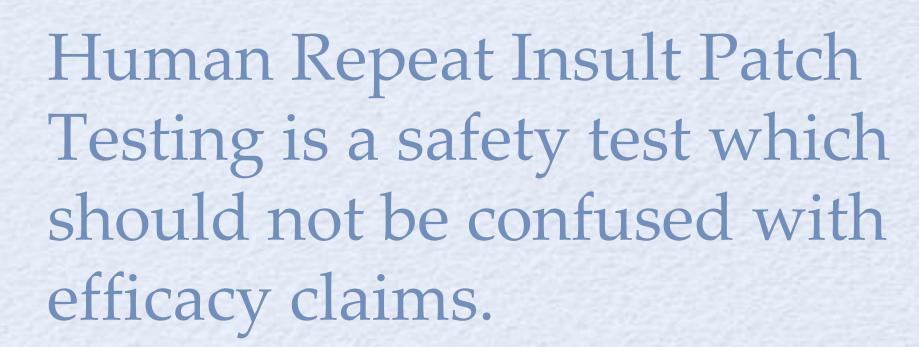






#### SUITABLE FOR SENSITIVE SKIN





Currently, 50% of Women claim to have "sensitive skin"

Derm

Study	RIPT Sensitive Panel
	Babies?

#### DERMATOLOGICALLY TESTED





Dermatologically vis Dermatologist

Study Skin = Dermatologically

Derm Certification



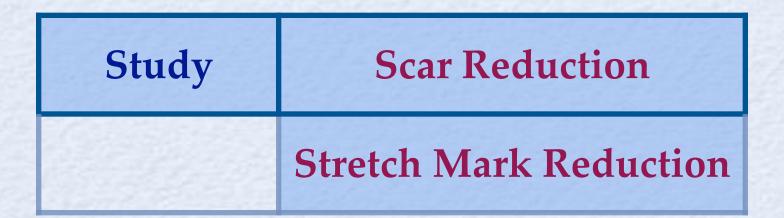
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#### DERMATOLOGIST RECOMMENDED

Cancer Council Cancer Council Professional Professional SUNSCREEN SUNSCREEN FOR SCARS FOR SCARS DNC NOT SUNCTON Soften 5 affective ingredients to help hydrohy, shooth; Zinc rich sunscreen loften. and soften the appearance. 5 affective ingredients to help hydralis, smooth Notwal fire to Nep and soften the appearance EDPORT SCOTS alf loans SPF 50+ Natural Not to help concedi soars. BIOAD STOCKIM **4 HOURS** SPF 50+ WATER RESISTANT SROAD SPECTRUM 4 HOURS 75mL WATER RESISTANT 75mL

For What?

Higher level of safety claims can be supported with specific in - use studies









#### HYPOALLERGENIC



#### Wiki

"The term lacks a medical definition, but it is in common usage and found in most standard English dictionaries."

Claim to be Restricted in E.U.

Study	Not Supported
	RIPT Sensitive







#### NON-COMEDOGENIC

Probably a low level claim





Study	Comedogenicity Test
	Acne - in use







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#### SWEAT RESISTANT





- Correlates with Water Resistance







#### SAND RESISTANT



New launch 2015





Formula



Both wet skin and sand resistant



#### INSTANT



"Reapply every 2 hours when exposed to sunlight"

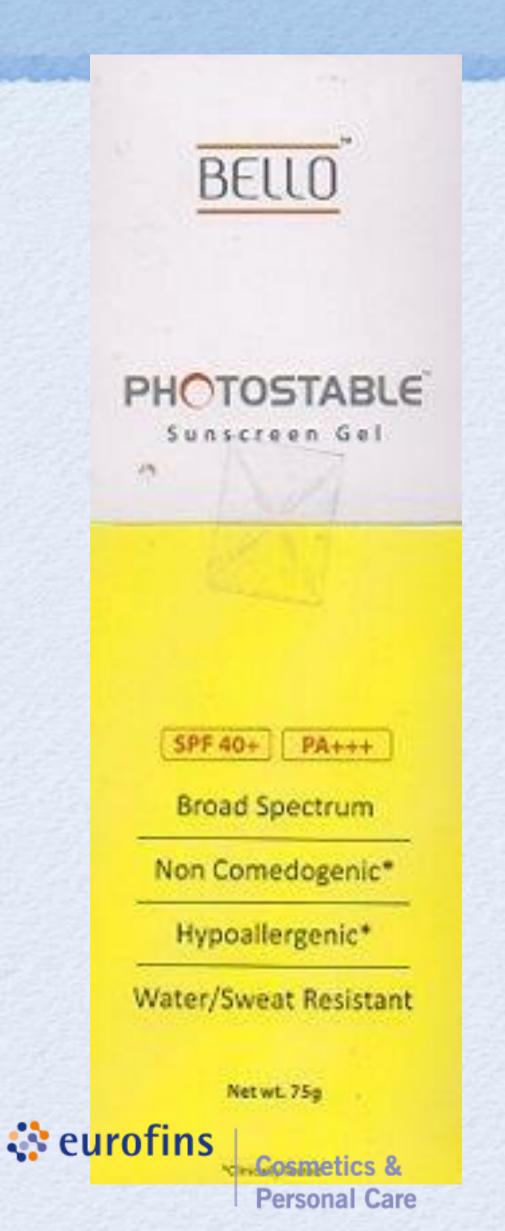
Formula

Study Not Instant?

How?



#### PHOTOSTABILITY





• Rejected by ISO as not needing definition

Formula

No standardised test

ISO 24443

In House Dermatest

#### DRY TOUCH





Study	D-Squame





#### NON-WHITENING





Related..
No staining
No metal marking

Study T Shirt Marking

Minolta Spectro





#### WHITENING!



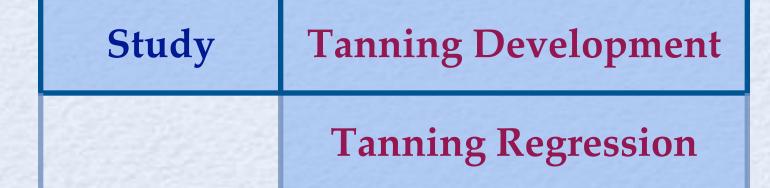
Whiter?

MARCHAN

#### CHEMICAL TANNING



Large growth in Australia following banning of Tanning Beds.







## INSTANT TANNING



Study	<b>Tanning Development</b>
	Tanning Regression





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# INSTANT TANNING







#### VITAMINS









Health





B3

B12

Assay Analytical
Stability



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#### ORGANIC



















































ITALY













SYEDEN







Support

**ISO** 

Ingredient Review

**Organic Certification** 

New ISO Standard



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#### EDIBLE

SKIN PROBLEMS?

MOGGOO

has helped herds of people.





Yoghurt

ΑΝΤΙΗΛΙΑΚΗ ΚΡΕΜΑ ΠΡΟΣΩΠΟΥ ΓΙΑΟΥΡΤΙ ΙΔΑΝΙΚΗ ΓΙΑ ΕΥΑΙΣΘΗΤΕΣ ΕΠΙΔΕΡΜΙΔΕΣ

SUNSCREEN FACE CREAM YOGHURT

HERBS/COOPERATIONS/EXTRACTIONS/RESEARCH

ME BIOΛΟΓΙΚΌ ΒΡΩΣΙΜΌ ΓΙΑΟΥΡΤΊ WITH ORGANIC EDIBLE YOGHURT

50 SPF



Greece

Support Ingredient Selection

Extrapolated Evidence

Yum!



Korea

#### GLUTEN FREE

#### VEGAN

"Environmental Working Group's (EWG) highest safety ratings"



the Cruelty Free shop

No animals









"....no PABA or chemicals. Plus it's free of peanuts, gluten, soy and dairy. Eco-friendly and 100% organic."

animal ingredients

Implication of no

Support Ingredient Review

Certification?



### FOR ANIMALS











#### ANIMAL NAMES







SPF 40+ GE

ROAD SPECTRU

STURIZES WITH ALOE

LIVA-LIVE PROTECTION

4ue (113m)











#### ANIMAL INSTINCT!









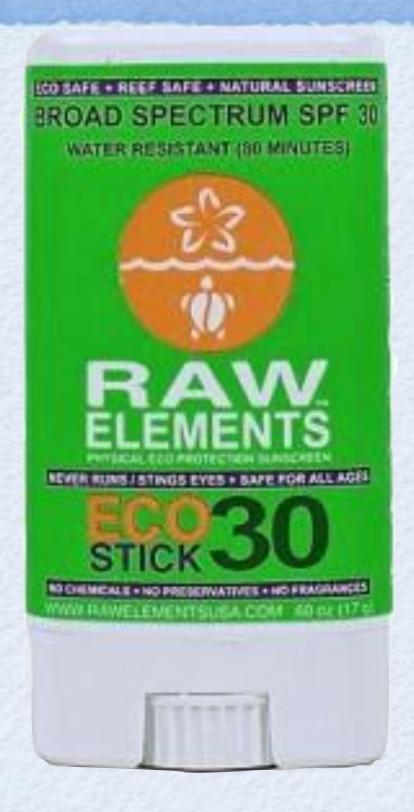




Chevy?



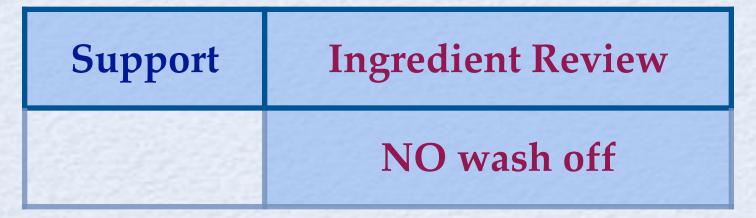
## MARINE ENVIRONMENT



It provides effective in-water defense without harming the marine environment.



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Reef

#### WHOLE ENVIRONMENT



**Ingredient Selection** 

**Suite of Tests** 

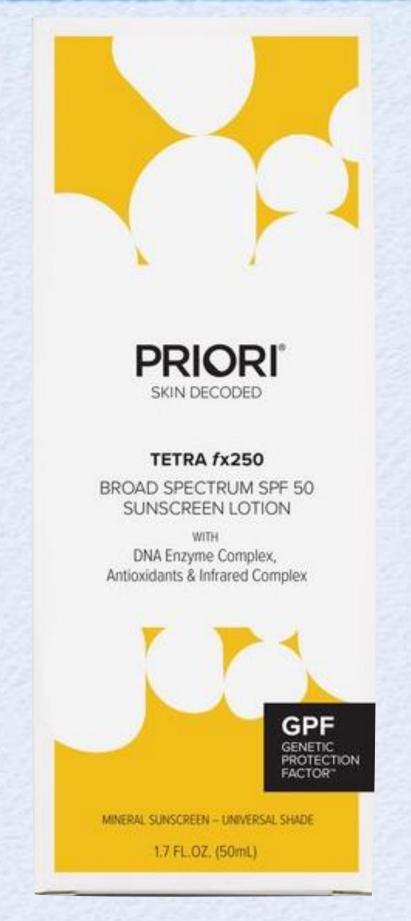
Support



Claims



#### GENETIC ALTERING





"Genetic Protection Factor"

Claims



Support Ingredient Selection

Extrapolation?

#### NEW RESOURCE - ETHICAL

#### Tinasorb A2B



30

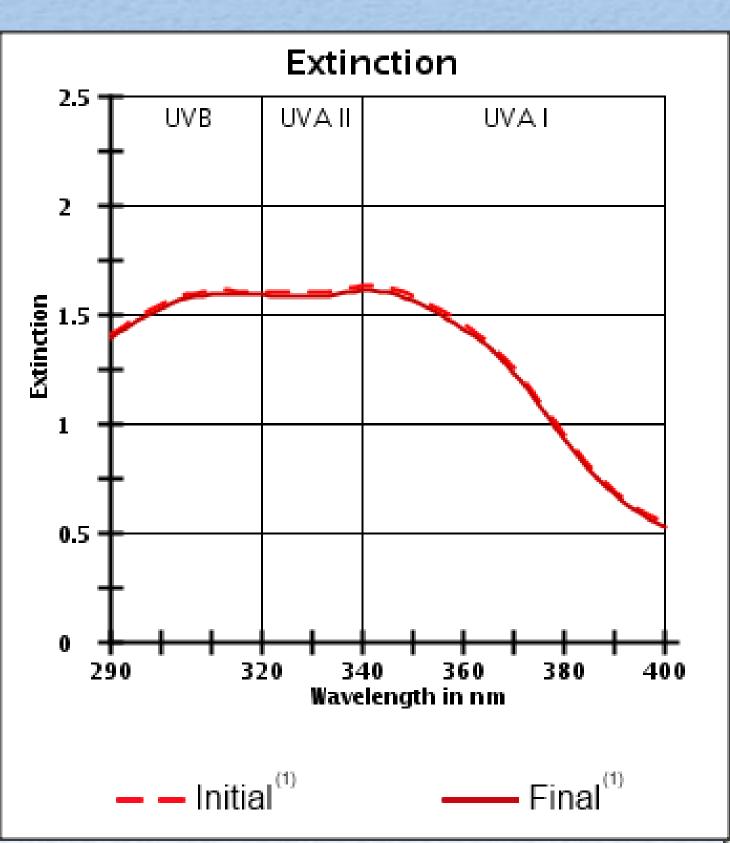
Fragrance free Non-sticky

#### **INCI Name:**

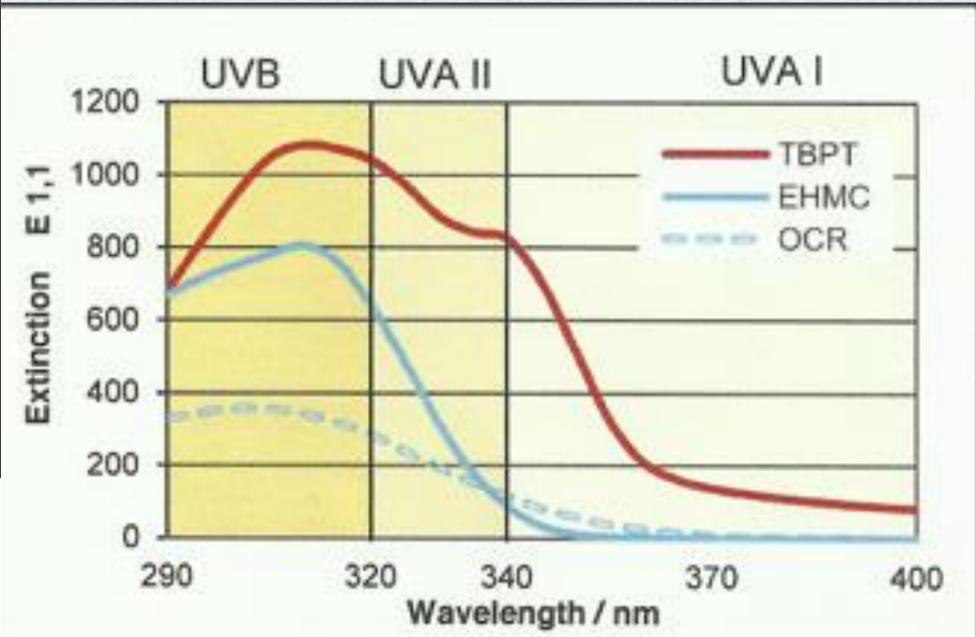
Tris-Biphenyl Triazine (nano),

Abbreviation: TBPT (nano)





Claims





#### SUMMARY: PROGRESSION OF CLAIMS

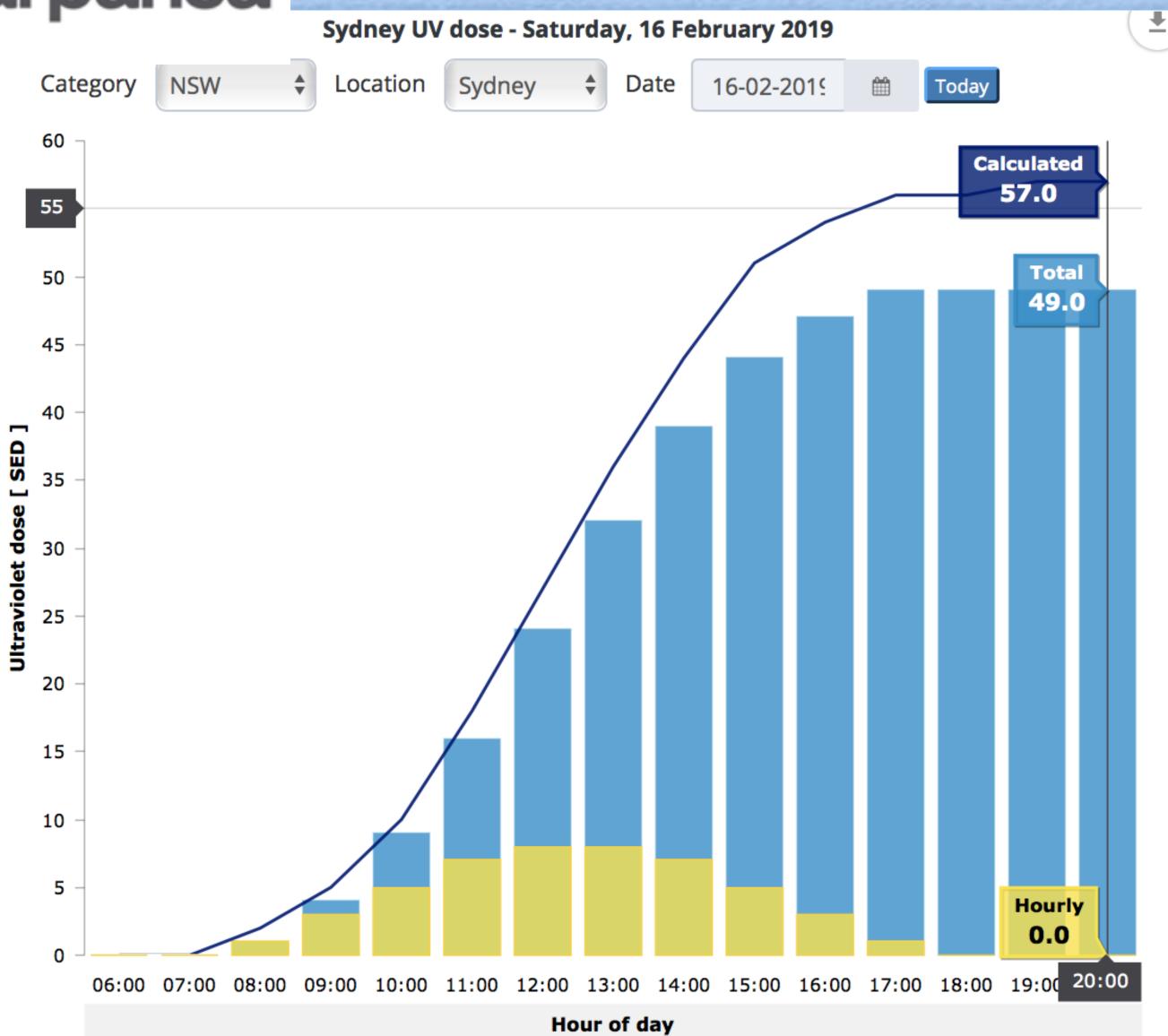


- MORE "Nos"
- MORE SPF
- MORE UVA
- MORE WATER RESISTANCE
- MORE of the SPECTRUM
- MORE of the ENVIRONMENT
- MORE SAFE
- MORE ELEGANT

### CUMMULATIVE UV INDEX



💸 eurofin





SEDs
Versus
MEDs?

#### SUN PROTECTION APP

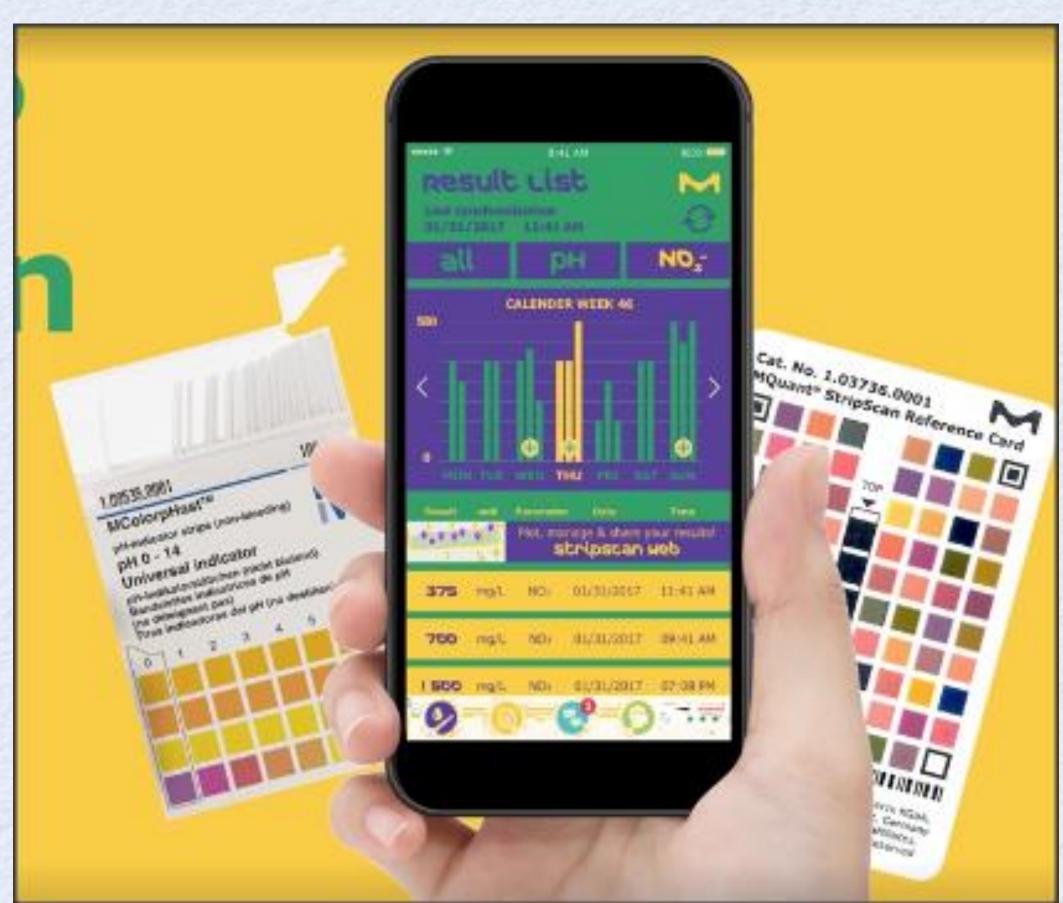








### SUN PROTECTION APP









#### CANCER COUNCIL SURVEY 2017





#### Almost half of Australians confused about sunscreen

17 % of respondents were worried that sunscreens contain ingredients that are bad for your health

20 % believed that using sunscreen regularly would result in not having enough vitamin D.

If we do not focus on the Sun Protection message, do we end up only confusing our users?

