

Compliance control of substrate following

ISO 24443:2012 - FDA monograph 2011 - Boots Star Rating System 2011

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Agenda

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Summary	
Steps	
General control	
Technical control	
Conclusion	Erreur ! Signet non défini



Summary

Beyond the certification of the competence of laboratories assessment of sun protection, it is important to have confidence in the conformity of equipment, consumables and services provided by suppliers with standards and methods.

For this, each product (equipment and consumable) and service (calibration and interlaboratory campaign) shall meet a complete technical specification extracted from the standards and methods.

In addition, each batch/serial certificate of these products/services should be also checked to ensure sustainability of compliance.

SUBSTRATE				
Type:	Sun protection field - Substrate			
Goal(s) and scope(s):	Check the quality and technical specifications of substrate to comply with in			
	vitro sunscreen testing methods			
Reference(s):	ISO 24443:2012			
	FDA monograh 2011			
	Boots Star Rating System 2011			

DOCUMENT			
Reference:	PARTNER-SUBSTRATE-V1		
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Content:	1. General control		
	2. Technical control		
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Steps

General control

To ensure a minimum quality level, the inspected company should have a quality system management.

At least one Certification / Label is required.

Note: If none is available, a complementary audit should be necessary including management system, subcontracting services, control of records in general and technical, internal audits, management reviews, equipment, accommodation and environment, confidentiality, etc.

Technical control

The second part concerns the technical characteristics inspection of the substrate dedicated to the sun protection field.

For the technical part, the control results, used protocols and associated certificates (if applicable) are required to be valid.



General control

Subject	Yes	No	NA /NE	Comment			
1. GENERAL							
1.1. Certification / Label							
➢ ISO 9001							
➤ ISO 13485							
> ISO 17025							
➤ ISO 17043							
> FDA registred							
➤ GMP (Good Manufacturing Practice)							
> GLP (Good Laboratory Practice)							
➤ GCP (Good Clinical Practice)							



Technical control

Subject	Limit	Yes	No	NA /NE	Comment	
2. SUBSTRATE						
2.1. General						
	ISO 24443:2012 PMMA molded FDA monograph 2011					
> Material	FDA monograph 2011 PMMA molded or PMMA sandblasted Boots Star Rating System 2011 PMMA or Quartz or other material with similar and reliable results					
Application area	ISO 24443:2012 ≥ 16 cm ² FDA monograph 2011 ≥ 16 cm ² Boots Star Rating System 2011 ≥ 20 cm ²					
➤ Size	FDA monograph 2011 Sides ≥ 4 cm					
> Surface	No surface energy treatment (physical and/or chemical) and without any traces of suction cup, finger, silicone, dust, black or white points, injection core, scratch, etc.					
➤ Characteristics	UV-transparent, non-fluorescent, photo-stable, inert towards all ingredients of the preparations to be tested and temperature operational range at least between 20-40°C					
2.2. Technical						
Topographic parameters values	ISO 24443:2012 [Ra (μm): 4.85 ± 0.32]; [Rv (μm): 13.04 ± 0.63]; [Rdq (°): 11.12 ± 1.29]; [A1 (μm²/mm): 239.75 ± 44.51]; [Ssc (L/μm): 0.03 ± 0.01]; [Vvv (mL/m²): 1.04E-6 ± 6.19E-7] FDA monograph 2011 [Sa (μm): 2 - 7] Boots Star Rating System 2011 [Sa (μm): 2 - 6]					
> Transmittance specifications	[Sa (µm): 2 - 6] ISO 24443:2012 Transmission values using a treated plate with glycerin against blank air [290 nm: >60 %T]; [300 nm: >69 %T]; [320 nm: >81 %T]					
2.3. Control				1		
> Certificate	Per batch, a quality certificate including (i) the measured results of each topographic parameters and transmittance specifications, (ii) the control date of raw material, visual characteristics and roughness					
Topographic parameters control	ISO 24443:2012 Surface area of 10 mm x 5 mm in 15-μm intervals using a noncontact sensor with light chromatic aberration principle and high resolution (10 nm in z and 1 μm in x and y) FDA monograph 2011 Surface area parameters measurement following an ad hoc international standard Boots Star Rating System 2011 Area surface parameters measurement following standard EUR 15178 EN					

