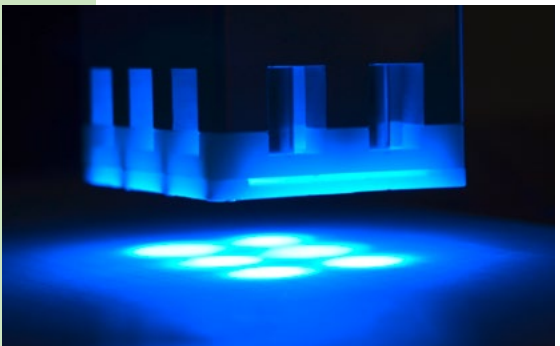


**SEIBERSDORF**  
LABORATORIES



# Solar Simulator Calibration

Accredited Calibration of  
Solar Simulators for  
SPF, UVA and UV testing.



# Solar Simulator Calibration

Laser, LED & Lamp Safety

## Why Calibration matters

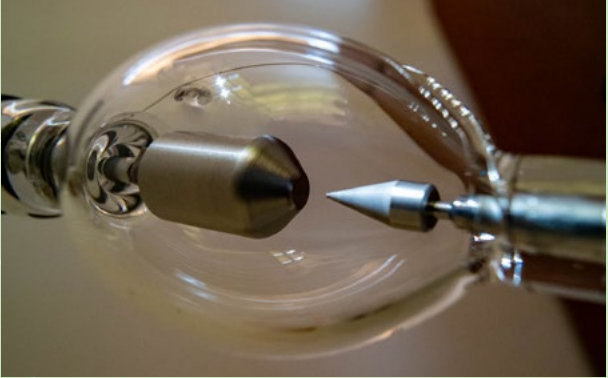
Solar simulators are designed to replicate natural sunlight and are essential tools in cosmetics, pharmaceutical, material testing and research applications.

The spectral distribution and irradiance of UV radiation directly influence the validity, reproducibility and comparability of test results – especially for SPF and UVA protection testing. Even small deviations can affect dose delivery and therefore study validity.

Cosmetics Europe and international standards therefore require regular verification and calibration by independent, accredited laboratories using high-precision spectroradiometric methods.

## Proficiency Testing (PT) / Performance Checks

We offer proficiency testing and performance checks for solar simulator measurements according to ISO/IEC 17043. These comparisons support customers in demonstrating measurement competence and quality assurance towards clients, audits and regulatory expectations.



## **Our Quality Commitment**

Seibersdorf Labor GmbH – Laser, LED & Lamp Safety operates at the highest international quality level:

- Accredited calibration and testing laboratory according to ISO/IEC 17025
- ISO 9001 quality management system implemented
- Certified testing laboratory within the IECCE CB Scheme
- More than 20 years of experience in solar simulator testing and measurement
- Independent, neutral and scientifically sound assessments

Our customers benefit from traceable results and regulatory confidence.

**Calibrations can be performed in our laboratory or/and at your facility worldwide.**



Laser, LED & Lamp Safety

## Our Services

**Accredited Calibration and compliance verification** of solar simulators according to requirements given in:

- ISO 24442 – In vivo determination of UVA protection
- ISO 24443 – In vitro determination of UVA photoprotection
- ISO 24444 – In vivo determination of SPF
- SPF Test Procedure (FDA 2011, FDA OTC M020)
- Daylight UVR Test Procedure (L'Oréal, 2006)
- ISO 23675
- ISO 23698

## Radiometer Services

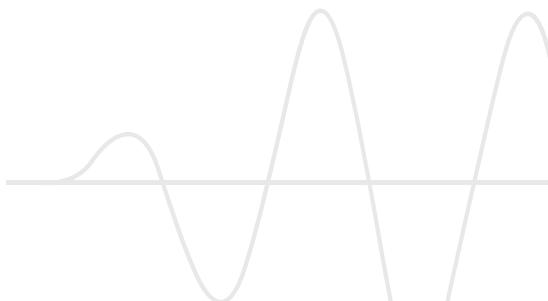
Calibration factors for customer radiometers used in SPF and UVA testing (traceable and documented).

## **Added Value for Our Customers**

- Reliable and traceable UV exposure levels
- Compliance with international standards and guidelines
- Independent expert evaluation
- Calibration at the customer's facility worldwide
- We support your quality management, regulatory compliance and confidence in test results.

## **Why accredited calibration?**

Calibration performed by an ISO/IEC 17025 accredited laboratory provides a decisive advantage over a manufacturer's in-house calibration: it delivers independent, traceable results with a clearly stated measurement uncertainty and an internationally recognized scope. This ensures that calibration data are not only technically reliable but also accepted for regulatory and audit purposes—an essential requirement for valid and comparable SPF and UVA testing according to international standards.



# Your Trusted Partner

With decades of experience and deep metrological expertise, Seibersdorf Labor GmbH is a trusted partner for manufacturers, testing laboratories and research institutions worldwide.

**Independent. Traceable.  
Accurate.**

## Contact

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Presented by: