

DermaLab pH Probe



pH Probe

The pH probe delivers objective measurements of skin pH. Measurements can be performed independently or before and after a skin intervention or the onset of skin conditions. The pH probe and accompanying software enable precise and reliable measurements, enhancing research and data-driven evaluations in skin analysis.

Technology

The pH probe is a gel-filled surface type probe featuring a glass measuring electrode.

Skin pH is determined by measuring an electric potential (voltage) in the skin, which is then converted into a pH value using established potentiometric principles.

Benefits

- User-friendly design with ultra-fast response time
- Measurement names are customizable for organized data management
- The probe comes complete with calibration kit
- Simple calibration routines for precise performance

Specifications

- Principle: Potentiometric
- Measurement range: 1.00 to 11.00 pH
- Software interface: Allows for up to 8 measurements and has an automatic calculation of averages
- Diameter: 12 mm
- Measurement area: 1.131 cm²

APPLICATION

Skin pH reflects the concentration of H⁺ ions on the skin surface. The skin surface has a more acidic pH (4.0-6.0) than the body's internal environment (7.0), creating a protective acid mantle barrier to suppress bacteria growth, neutralize alkaline-based substances, and to maintain an optimal acid environment for the skin's natural flora.

Monitoring skin pH measurements is valuable because many skin conditions such as atopic dermatitis, acne, and rosacea are associated with skin barrier disruptions and less acidic pH values. It may also be of interest for supporting more targeted cosmetic treatments.

Examples of fields of application with the pH Probe:

- Observation of skin conditions in dermatologic research
- To personalize cosmetic treatments to skin pH
- Product testing and development

Note: The probe is not a medical device and is not intended for medical purposes such as diagnosis or monitoring of skin disease.

The pH Probe

Is one of many parameters available for the customizable skin analysis tools: The DermaLab Combo, the DermaLab Mini, and DermaLab Aesthetic. This probe is also available as a single parameter.

To learn more about our solutions, visit cortex.dk



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