

Overview of Skin Age Test

Precision's Skin Age Panel measures eleven endogenous metabolites in human sebum. The Sebum is collected with a specially designed collection device called Sebutape.

Sebum collection is simple as the sebutape resembles regular office tape strips, making application and handling of the tape very easy.

For the Skin Age Test, sebutapes are applied to the forehead for one hour. During this time, the sebum that is produced from the sebaceous glands in the skin penetrates into the tape. After exposure, the tape is removed and mounted onto a collection card. The card with the attached tapes can be easily mailed to the laboratory, where the tapes are removed from the card, extracted, and analyzed by LC-MS/MS testing instruments.

Key Advantages - Reproducible Results

- Fully quantitative LC-MS/MS method with a minimum of 6 to 8 calibrators per analyte
- Wide range of sample matrices
- Proprietary technology facilitates low level quantitation in biological matrices with excellent accuracy and precision
- Matching ¹³C labelled internal standards for all analytes
- Calibrator and quality control sample precision (% CV) typically <10%

Analytical Method and Instrumentation

- Analysis performed by LC-MS/MS
- Sciex Exion UHPLC, coupled to a Sciex 5500+ Triple Quadrupole Mass Spectrometer

Panel Analytes

Measured Sebum Metabolites
Methionine Sulfoxide
trans-Urocanate
cis-Urocanate
Glycylvaline
γ-Glutamylphenylalanine
Cholesterol
Lignocerate
C16 Ceramide
Squalene
DHEAS
Sapienate

Method of Collection

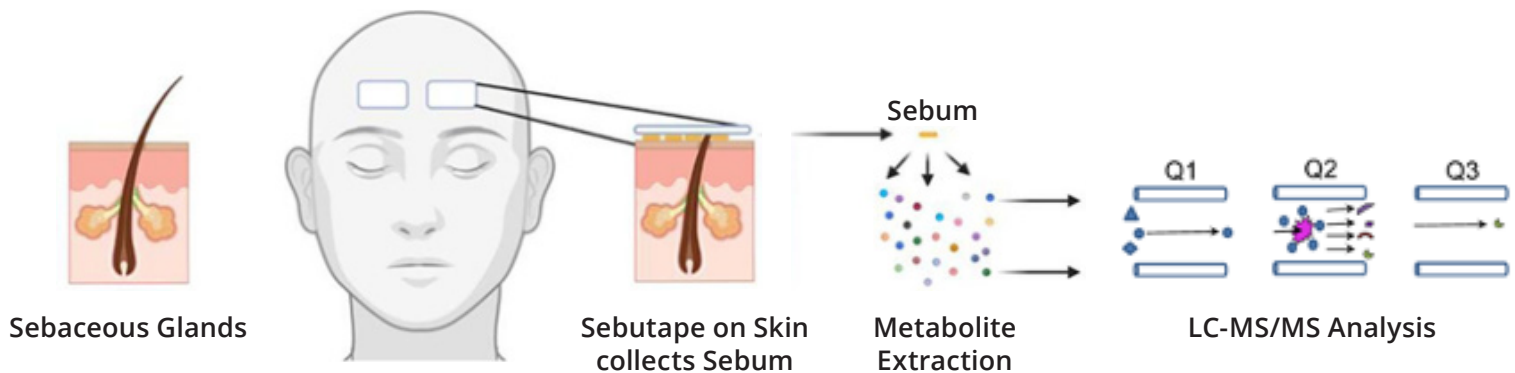


Figure modified from: Annals of the Rheumatic Diseases, June 2023 - Volume 82 - Suppl 1, Poste 814, Hinrichs, A. et al.