

## **Dermatest**



# STEPS



I SUICOME IMPRESSION GATHERING



2. MATCHED IMPRESSIONS



3. Profilometry Measurement



## **Profilometry (Wrinkles)**

### Measurement of Skin Profile -Roughness and Wrinkles

#### **Supportable Claims**

- · Wrinkle Reduction
- · Skin Smoothness
- Cellulite

#### **Skin Mapping**

The area to be scanned from each sample is clearly mapped so as to determine the exact same area for relevant future time points

#### **Silicone Impressions**

At each visit, a single silicone replica is made of an area on one side of the target area and a record is kept of this target. The samples are stored in controlled conditions for comparative measurement. An additional benefit is that the impressions can be stored for long periods as a semi-permanent record if required.

#### **Profiling**

Comparative analysis of skin profilometry is conducted, using surface roughness analysis.

Typically, Ra (skin roughness and Ry (wrinkle Depth) are recorded at each time of measuring operation.

#### **Test Target Sites**

The common target is the crows foot area around the eye. Other sites include scarred areas and cellulite lines.

#### Reporting

Data for at least 10 test subjects is accumulated. Percentage improvement is expressed as Ry - (wrinkle depth) and/or Ra - (average roughness).

<u>Initial - Final</u> X100 =% improvement Initial

#### **For Wrinkle Test**

Test subjects with medium wrinkling in the eye area (crows foot).

#### For Skin Roughness

Can be as an adjunct to the wrinkle test. Adjoining non- wrinkled area is measured.

#### **Alternative Methods**

Recent developments in this measurement area include several alternative systems which are based on 3D imaging.

#### References

1.Stylus Method for Skin Surface Contour Measurements Gassmueller, J et al. Handbook of Non-invasive Methods and the Skin 1995 2. Profilometry of Skin - a useful tool for the substantiation of cosmetic efficacy. Cook Thomas. H, Journal of the Society of Cosmetic Chemists Vol 31 No7 1980.

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