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INTERNATIONAL

Innovative Solutions for Skin Science

Mikuni American Corporation

Revenir Clinical Studies

- In Vitro Percutaneous Absorption Study
- Facial Fine Line/Wrinkle Study
- Facial Skin Lightening Study

In Vitro Percutaneous Absorption

"Experimental Design"

- Franz Cell
- Mass Balance Study (Skin Surface, Epidermis, Dermis)
- Frozen Female Cadaver Face Skin
- Single Dose- 10 second spray- 8" from chamber
- Sample Chamber Under Skin at 2, 6, 12, 23, and 35 hours after dosing for Vitamin C

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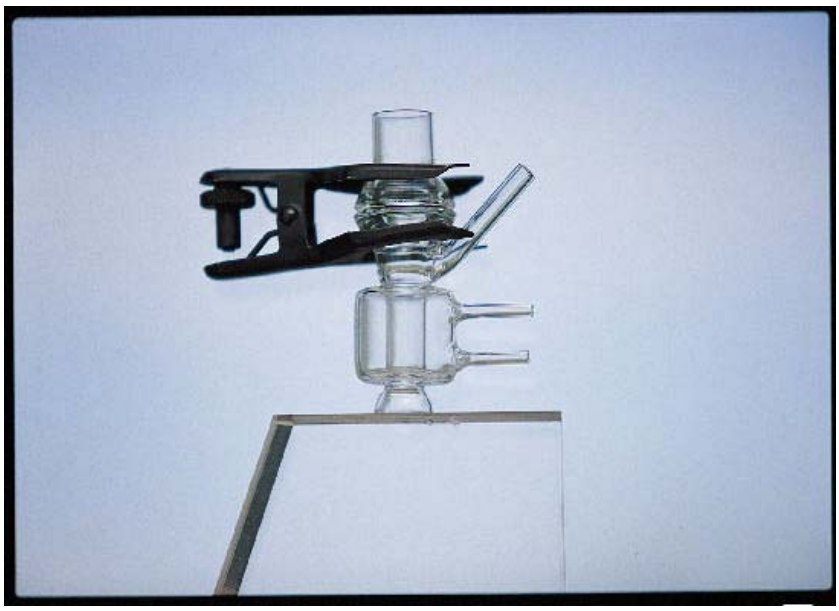
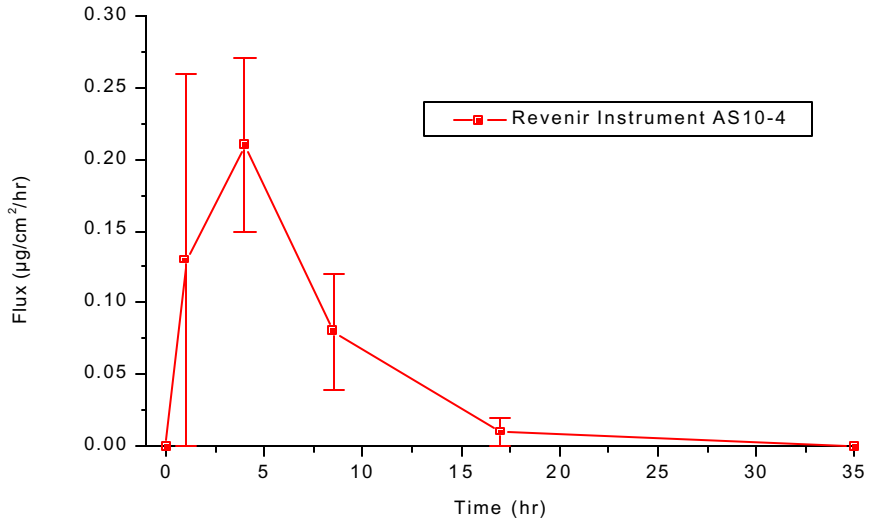


Figure 1: Percutaneous Absorption of Ionized Ascorbic Acid: Flux Results

(Mean ± SE from 3 Donors as µg/cm²/hr)



Absorption Results

Parameter	µg Vitamin C
Receptor Fluid	1.35 ± 0.54
Dermis	5.46 + 0.85
Epidermis	6.14 + 1.81
Unabsorbed Surface Wash	53.65 + 11.61

Fine Line / Wrinkle Study
"Design"

- 20 Caucasian Females, 35-75 years of age
- Mild to Moderate Fine Line/Wrinkles in the Crow's Feet Area
- 12 Weeks of Daily Treatment (AM/PM)
- Silicone Replicas Taken of the Crow's Feet Area at Baseline and After 6 and 12 Weeks of Treatment

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Silicone Replica Technique

- Negative Replica of Skin Contour
- Catalyzer is Added to Silflo Resin and Mixed with Panelist Lying Down, the Silfo Resin is Evenly Spread Over the Crow's Feet Area of the Eye
- After 2-3 Minutes of Drying, the Silicone Replica is Peeled from the Skin

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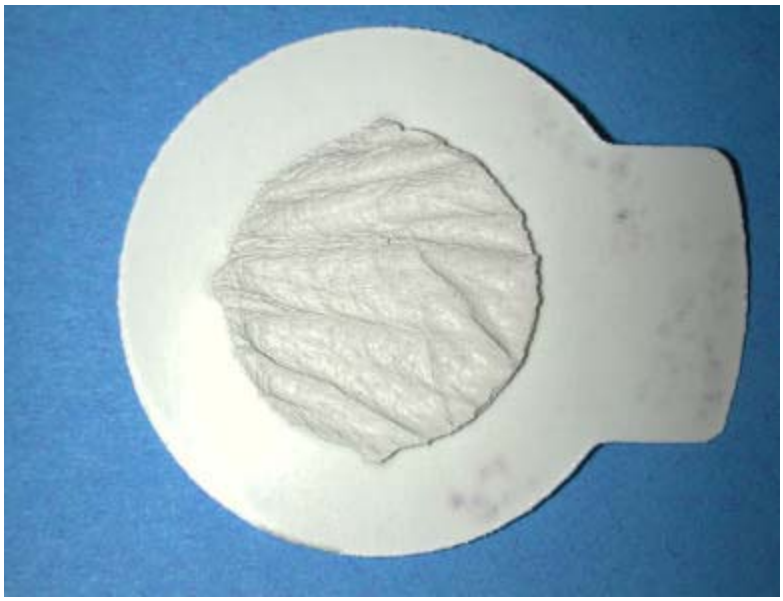

Image Analysis of Silicone Replicas

"Parameters Measured"

Rz and Ra- "Roughness" ↓ = smoothness
Breadth - "Wrinkle Depth" ↓ = reduction
NumWr - "Number of Wrinkles" ↓ = reduction
FSpace - "Distance Between Lines" ↑ = smoothing
FNum - "Number of Lines" ↓ = reduction
Shadows - "Area of Wrinkles" ↓ = smoothing

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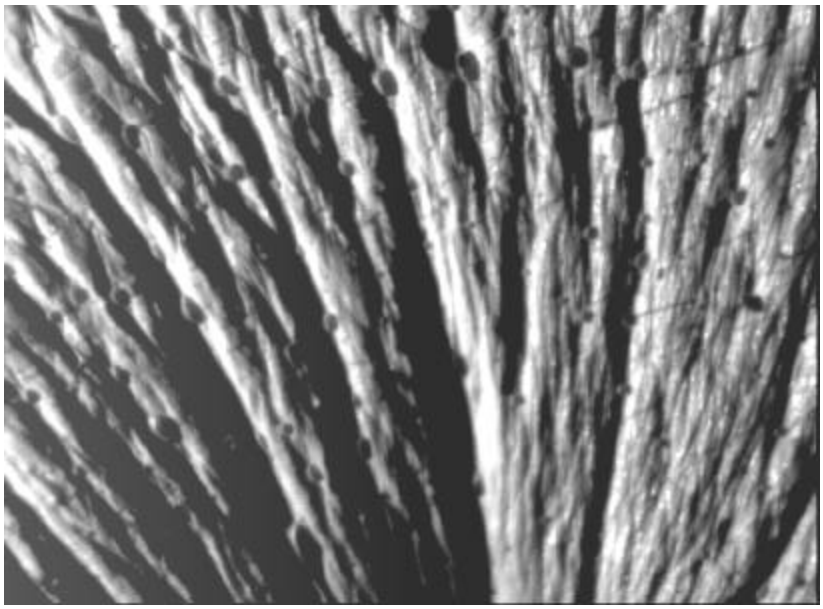

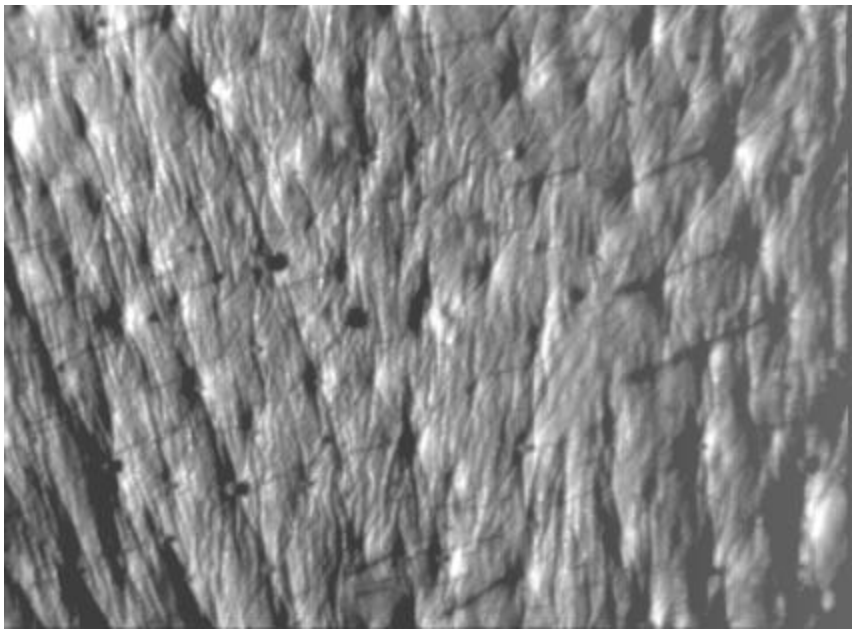

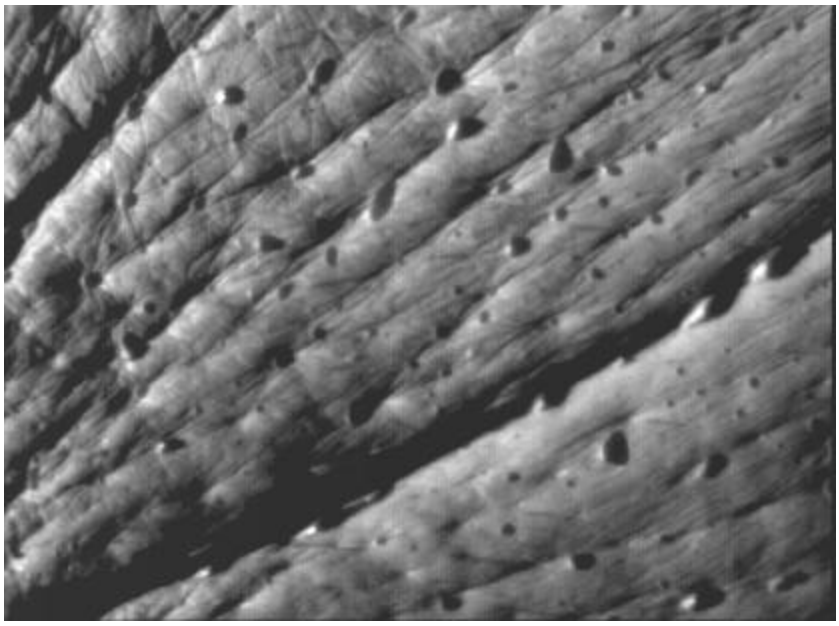

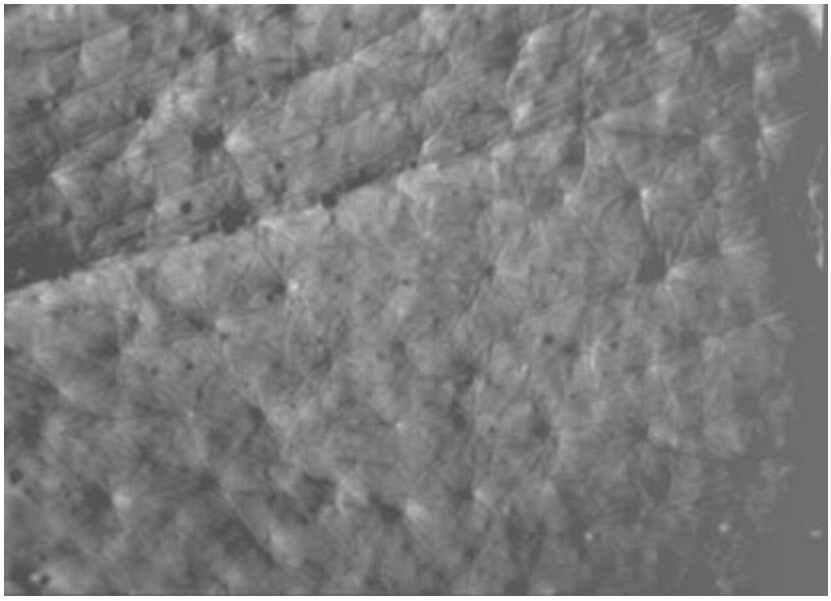

Wrinkle Image Analysis Data

Parameter	6 Weeks	12 Weeks
Rz (roughness)	Up to a 32% 16/26 Subjects	Up to a 84% 21/27 Subjects
Ra (roughness)	Up to a 43% 20/26 Subjects	Up to a 83% 20/27 Subjects
NumWr (number of)	Up to a 21% 11/26 Subjects	Up to a 77% 17/27 Subjects
FSpace (distance between Wrinkles)	Up to a 273% 22/26 Subjects	Up to a 326% 22/27 Subjects

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Skin Lightening Study
"Design"

- 25 Females, 35-75 Years of Age
- Macular Hyperpigmentation of the Face Caused by UV Radiation, Hormonal Influences, and/or Genetic Predisposition
- Chromameter® Readings of the Face for Changes in Color at Baseline and After 6 and 12 Weeks of Treatment

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Chromameter

- Instrument to Quantify Changes in the Color of Skin
- Parameters Measured
  - a* (red to green)
  - L* (white to black)
  - b* (yellow to blue)

Chromameter Data

"Normal Skin"

	6 Weeks	12 Weeks
Redness	Up to a 25% ↓ 17/27 Subjects	Up to a 29% ↓ 17/27 Subjects
Translucence/ Clarity	Up to a 12% ↑ 15/27 Subjects	Up to a 26% ↑ 27/27 Subjects

Chromameter Data

"Hyperpigmented Skin"

	6 Weeks	12 Weeks
Redness	Up to a 29% ↓ 19/27 Subjects	Up to a 40% ↓ 24/27 Subjects
Translucence/ Clarity	Up to a 18% ↑ 17/27 Subjects	Up to a 20% ↑ 26/27 Subjects

Conclusions

- Unique Delivery Device
- Delivers Vitamin C to the Dermal Layer of the Skin
- Improves the Appearance of Facial Wrinkles Leading to Smoother Skin
- Improves the Discoloration of Facial Skin Leading to a More Even Skin Tone