A new Thin Absorbent Skin Adhesive (TASA) has been developed which has the following properties:

- Transparency
- Gel formation upon fluid absorption
- Similar properties as acrylic adhesive

Tests Methods

Fluid Management

- Fluid management was evaluated using the Fluid Handling Capacity test method (EN 13726)

Test Methods

- The skin was exposed to a saline solution (200µl) for 1 hour at 31°C
- The saline solution in the Paddington cup, which has not been absorbed by the test article, is drained away

Results

Fluid Management Properties

- Fluid Management: The TASA demonstrates greater fluid management capacity compared to the hydrocolloid dressings

Performance on Skin and Effect of the Adhesive on the Stratum Corneum (SC)

- The TASA did not generate disruption of the skin barrier function upon removal.

Conclusions

- The difference in the average peel value and the maximum peel value after 3-day wear time is lower for the TASA than for the hydrocolloid dressings
- The TASA does not disrupt the skin barrier function
- The TASA can be used in clinical trials where skin integrity is a critical consideration.