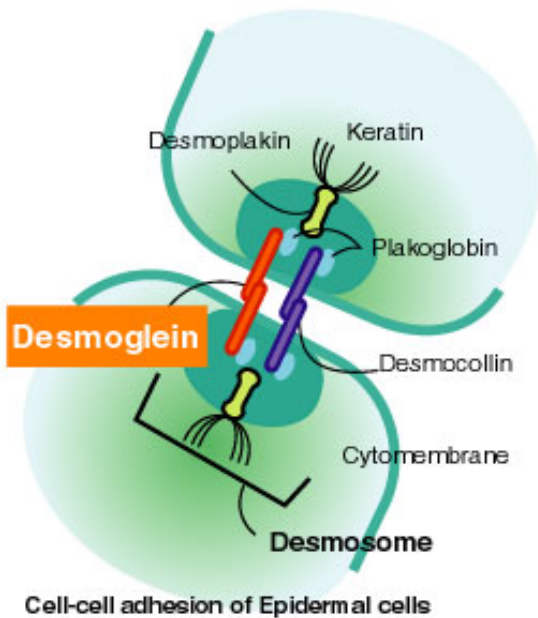


The MESACUP DSG-1 & DSG-3 ELISA TEST is a semi-quantitative enzyme-linked immunosorbent assay for the detection of autoantibodies to desmoglein 1 (DSG-1) and desmoglein 3 (DSG-3) in human serum. The DSG-1 & DSG-3 ELISA TEST is intended for *in vitro* diagnostic use as an aid in the diagnosis of certain pemphigus diseases.

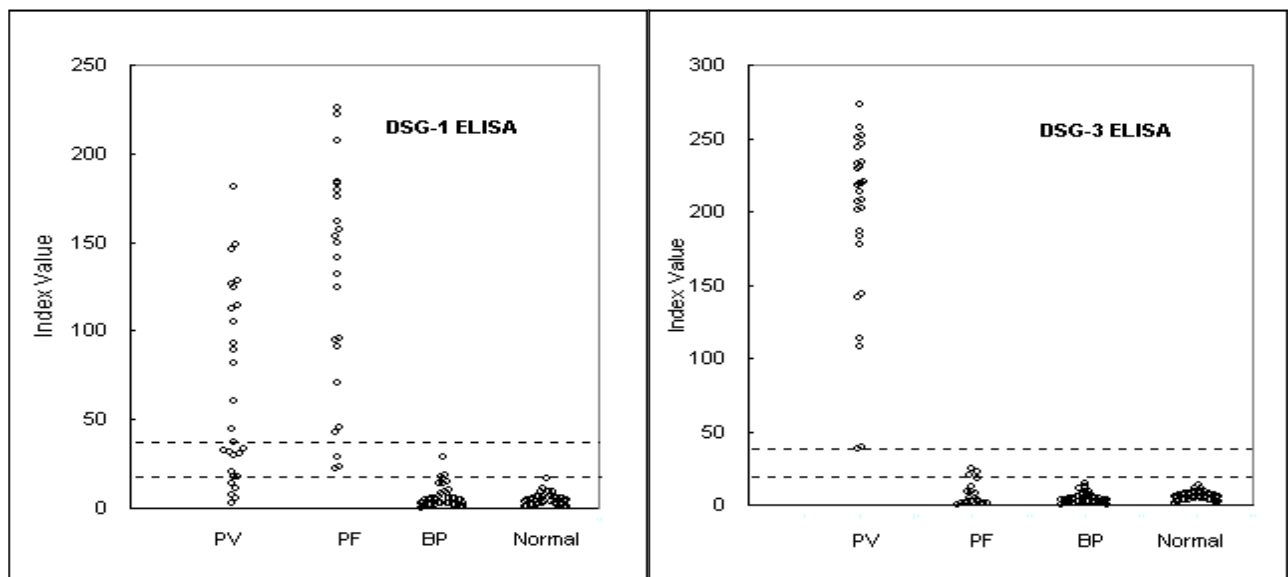


- Microtiter wells are coated with recombinant human DSG-1 or DSG-3
- Less subjective compared to Immunofluorescence, resulting in independent results for DSG-1 and DSG-3
- MESACUP DSG-1 & DSG-3 ELISA kit can help in discriminating between Pemphigus vulgaris and pemphigus foliaceus
- Can be used to exclude the diagnosis of bullous pemphigoid

Cell-Cell adhesion of Epidermal cells

Clinical Study Population

| | DSG-1 Positive | DSG-3 Positive | IIF |
|---------------|----------------|----------------|-----------|
| PV (n=28) | 21 (75%) | 28 (100%) | 28 (100%) |
| PF (n=23) | 23 (100%) | 6 (26%) | 21 (92%) |
| BP (n=40) | 2 (5%) | 0 (0%) | 7 (17%) |
| Normal (n=36) | 1 (3%) | 0 (0%) | 4(11%) |



PV: Pemphigus vulgaris, PF: Pemphigus foliaceus, BP: Bullous pemphigoid
Amagai, M. et al, Br. J. Dermatol. 140, 351-357 (1999)

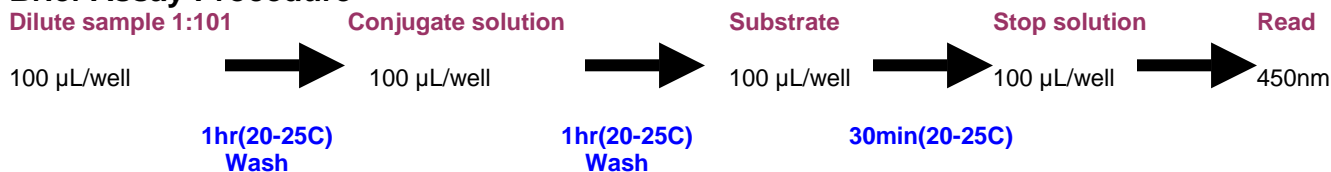
MESACUP DSG-1 & DSG-3 ELISA TEST

For In Vitro Diagnostic Use

Pemphigus includes a group of often fatal, autoimmune, blistering diseases characterized by intraepithelial lesions. Pemphigus vulgaris and its variants may present with oral or other mucosal lesions alone or with mucosal plus skin lesions. Pemphigus foliaceus and its variants present with skin lesions alone. Indirect immunofluorescent (IIF) studies reveal that both forms of pemphigus are caused by autoantibodies to cell surface antigens of stratified epithelial of mucous membranes and skin. These antibodies bind to calcium dependent adhesion molecules in cell surface desmosomes, notably desmoglein 1 (DSG-1) in pemphigus foliaceus and desmoglein 3 (DSG-3) in pemphigus vulgaris. Pemphigus vulgaris patients with both mucosal and skin lesions have antibodies to both DSG-1 and DSG-3.

Diagnosis of pemphigus largely relies on immunofluorescence testing (IF) utilizing sectioned normal human skin or monkey esophagus. However, the staining pattern using IF is virtually identical, making it difficult to distinguish between PV and PF. DSG-1 ELISA Kit and DSG-3 ELISA Kit are highly specific and sensitive ELISA tests, which are useful for the diagnosis of patients with PV and PF.

Brief Assay Procedure



Correlation with indirect immunofluorescence (IIF) method

| | | IIF method | |
|-------------|----------|------------|----------|
| | | Positive | Negative |
| DSG-1 ELISA | Positive | 47 | 2 |
| | Negative | 11 | 67 |

90% Relative Agreement

| | | IIF method | |
|-------------|----------|------------|----------|
| | | Positive | Negative |
| DSG-1 ELISA | Positive | 34 | 0 |
| | Negative | 26 | 67 |

80% Relative Agreement

Kit Contents

| | |
|------------------------------------|--------------|
| 48 DSG-1 antigen coated microwells | 6 x 8 strips |
| 48 DSG-3 antigen coated microwells | 6 x 8 strips |
| Calibrator-1 (ready to use) | 1.5 mL |
| Calibrator-2 (ready to use) | 1.5 mL |
| Conjugate Reagent (IgG) | 0.3 mL |
| Conjugate Diluent | 24 mL |
| Assay Diluent | 50 mL |
| Wash Concentrate (10x) | 100 mL |
| Substrate (ready to use) | 20 mL |
| Stop Solution (ready to use) | 20 mL |



Corgenix, Inc.

12061 Tejon Street
Westminster, Colorado 80234
Toll Free: 800-729-5661
Telephone: 303-457-4345
Fax: 303-457-4519
Email: techsupport@corgenix.com
www.corgenixonline.com

Corgenix (UK) Ltd.

75 Broadway
Peterborough, PE1 1SY UK
Telephone: +44 (0) 1733 296800
Fax: +44 (0) 1733 296809
Email: sales@corgenix.co.uk
www.corgenix.co.uk

MESACUP DSG-1 & DSG-3 ELISA Test

Product # 10745
Quantity: 48 wells DSG-1
48 wells DSG-3
Storage: 2-8 C
Stability: 12 months