

**MESACUP-2 Anti-Sm  
ELISA Test Kit**  
*For In Vitro Diagnostic Use*

**MESACUP-2 Anti-Sm  
ELISA Test Kit**

Product #: 10742  
(96 well kit)

- **Highly purified Sm protein is used as the antigen providing a high degree of specificity**
- **The results are expressed as quantitative values (Unit/mL) enabling changes of anti-Sm values to be monitored**
- **Fast test turnaround**
- **Convenient ELISA procedure**

**Background**

Anti-Sm antibody is an antinuclear antibody first identified in systemic lupus erythematosus (SLE). This autoantibody reacts with ENA (extractable nuclear antigen). Anti-Sm antibody is detected from 10-30% of SLE patients, and is rarely detected in other diseases, therefore, it can serve as a marker for SLE with high diagnostic value. It was adopted as a marker for diagnosis of SLE in the 1982 revised criteria for the classification of SLE by the American College of Rheumatology (ACR). It was reported that anti-Sm is observed at a high titer in the active period and at a low titer in the nonactive period of SLE. Raynaud phenomena and nephropathy are reported to occur in SLE patients tested positive for anti-Sm more frequently than in patients tested negative for anti-Sm.

The MESACUP-2 anti-Sm ELISA is a highly specific and sensitive test for anti-Sm antibody present in the serum.

**Procedure**

This product utilizes the commonly employed heterogeneous noncompetitive indirect solid-phase method of enzyme-linked immunosorbent assays (ELISA).

Human serum is reacted with antigen coated onto microtiter wells. Antibodies, if present, will react with the immobilized antigen forming stable antigen-antibody complexes. If no antibodies are present, the complexes will not form and the serum components will be washed away. Horseradish peroxidase conjugated goat anti-human antibodies (IgG, IgA and IgM heavy chain specific) are added to bind with the complexes formed in step one. If no complexes are formed in step one, the conjugate will be washed away. Peroxidase substrate solution (TMB) is added to produce a color change when reacted with the complexes formed in steps one and two. After terminating the enzyme reaction by adding stop solution, the color intensity of the reaction is measured photometrically. The color intensity of the reaction depends on the amount of antibody, if present, in the human serum.

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**Each MESACUP-2 anti-Sm ELISA  
Test Kit contains the following  
reagents:**

96 antigen coated microwells in frame	12 x 8 strips
Calibrator-1 (0 U/mL) (ready to use)	1 x 1.5 ml
Calibrator-2 (100 /mL) (ready to use)	1 x 1.5 ml
Positive Control (ready to use)	1 x 0.2 ml
Negative Control (ready to use)	1 x 0.2 ml
Conjugated Reagent (ready to use) (HRP conjugated goat anti-human immunoglobulins)	1 x 20 ml
Assay Diluent	2 x 50 ml
Wash Concentrate (10x)	1 x 100 ml
Substrate (ready to use)	1 x 20 ml
Stop Solution (ready to use)	1 x 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](mailto:techsupport@corgenix.com)  
[www.corgenixonline.com](http://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](mailto:sales@corgenix.co.uk)  
[www.corgenix.co.uk](http://www.corgenix.co.uk)