

## **AUTOIMMUNE PRODUCTS ELISA TEST KITS**

- MESACUP ANA Test
- REAADS Anti-dsDNA
- MESACUP-2 Test SS-A (Ro)
- MESACUP-2 Test SS-B (La)
- MESACUP-2 Test Sm
- MESACUP-2 Test RNP
- MESACUP-2 Test Scl-70
- MESACUP DSG-1 & DSG-3

## **IMMUNOFLORESCENCE**

- Titer-Fluor 300 (25 x 12-well Hep-2)
- ANA Diluent
- nDNA 100 Test Kit (10x10 well)
- Rat Kidney/Stomach Autoantibody Screening Kit (12 x 8-well)
- Rat Liver/Kidney/Stomach Autoantibody Screening Kit (12 x 8-well)

### **MESACUP ANA Test**

#### **Product #10739**

Antinuclear antibodies (ANA) are a group of autoantibodies that bind to various cell nuclear antigens. The detection of ANA is useful in screening for rheumatic diseases, including Systemic Lupus Erythematosus (SLE), Mixed Connective Tissue Disease (MCTD), Sjogren's Syndrome (SS) and Progressive Systemic Sclerosis (PSS).

### **REAADS Anti-dsDNA**

#### **Product #022-001**

Antibodies to double-stranded DNA (dsDNA) are often detected in patients with SLE. The presence of anti-dsDNA antibodies is one of the criteria used by the American College of Rheumatology to classify SLE.

### **MESACUP-2 Test SS-A (Ro)**

#### **Product #10740**

SS-A antibodies are found in patients with SLE, Rheumatoid Arthritis (RA) and Sjogren's Syndrome. These antibodies have also been found in patients with Systemic Sclerosis and Neonatal Lupus Erythematosus.

### **MESACUP-2 Test SS-B (La)**

#### **Product #10741**

SS-B antibodies are found in patients with SLE, RA and Sjogren's Syndrome. These antibodies have also been found in patients with Systemic Sclerosis and Neonatal Lupus Erythematosus. Antibodies to SS-B rarely occur in the absence of anti-SS-A antibodies. The risk of nephritis is higher in patients with SS-A antibodies in the absence of SS-B antibodies.

### **MESACUP-2 Test Sm**

#### **Product # 10742**

Sm antibodies are highly specific markers for SLE and may be found in up to 30% of SLE patients. They are commonly associated with nephritis and in severe cases with central nervous system involvement.

### **MESACUP-2 Test RNP**

#### **Product #10743**

RNP antibodies may be found in up to 50% of SLE patients and in up to 95% of patients with MCTD. High levels of antibodies to the Sm/RNP complex, in the absence of anti-Sm antibodies are typical of MCTD.

**MESACUP-2 Test Scl-70****Product #10744**

Scl-70 antibodies have been clinically associated with Scleroderma (with a prevalence of up to 40%) and PSS (with a prevalence of 20-30%). They are rarely found in other rheumatic diseases.

**MESACUP DSG-1 & DSG-3****Product #10745**

MESACUP DSG-1 & DSG-3 ELISA measures anti-DSG-1 and anti-DSG-3 antibodies as an aid in the diagnosis in certain pemphigus diseases. Pemphigus includes a group of often fatal, autoimmune, blistering diseases characterized by intraepithelial lesions.

**SUMMARY OF MESACUP  
ANA PROTOCOL**

1. Add 100 µl of diluted patient sera to the antigen coated microwell.
2. Incubate for 60 minutes at room temperature.
3. Discard well contents. Wash 4 times.
4. Add 100 µl of Conjugate to each well.
5. Incubate for 60 minutes at room temperature.
6. Discard well contents. Wash 4 times.
7. Add 100 µl of Substrate to each well.
8. Incubate for 30 minutes at room temperature.
9. Add 100 µl of Stop Solution to each well.
10. Read the absorbance of each well at 450 nm, 620nm reference filter.

**SUMMARY OF dsDNA PROTOCOL**

1. Add 100 µl of Calibrator, Controls, and patient samples to the microwells.
1. Incubate at room temperature for 15 minutes.
2. Decant contents. Wash 4 times with PBS .
3. Add 100 µl of Conjugate to each well except the water blank.
4. Incubate at room temperature for 15 minutes.
5. Decant contents. Wash 4 times with PBS.
6. Add 100 µl of Substrate to each well except the water blank.
7. Incubate at room temperature for 10 minutes.

8. Add 100 µl of Stop Solution to each well except the water blank.
9. Add 200 µl of distilled or deionized water to the water blank well.
10. Read the absorbance of each well at 450 nm, 650nm reference filter.

**SUMMARY OF MESACUP-2  
ENA PROTOCOL**

1. Add 100 µl of diluted sample to the antigen coated microwell and .
2. Incubate for 60 minutes at room temperature.
3. Discard well contents. Wash 4 times.
4. Add 100 µl of Conjugate to each well.
5. Incubate for 60 minutes at room temperature.
6. Discard well contents. Wash 4 times.
7. Add 100 µl of Substrate to each well.
8. Incubate for 30 minutes at room temperature.
9. Add 100 µl of Stop Solution to each well.
10. Read the absorbance of each well at 450 nm, 620nm reference filter.