

**REAADS Anti-SSA
ELISA Test Kit**
For In Vitro Diagnostic Use

**REAADS Anti-SSA
ELISA Test Kit**
Product #: 10870
(96 well kit)

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

Background

Anti-SSA antibody, one of the anti-ENA (extractable nuclear antigen) antibodies, is observed with high frequency in the sera of patients with Sjogren's syndrome (SjS). In 1975 Alspaugh and Tan et al. reported that anti-SSA antibodies and anti-SSB antibodies were highly specific for SjS. Later, it was confirmed that the anti-SSA antibodies and anti-SSB antibodies were identical with anti-Ro antibodies and anti-La antibodies respectively, which had already been reported by Reichlin et al. At present, terms: anti-SSA antibodies, anti-SSB/La antibodies are generally used. Anti-SSA antibodies are reported to be present in more than 70 % of cases of systemic lupus erythematosus(SLE) overlap syndrome, sicca syndrome and mixed connective tissue disease(MCTD) overlap syndrome etc. in SjS. This antibody is also reported to be present in 30-50 % of other cases of collagen diseases overlap syndrome, and in more than 70 % of SLE without sicca syndrome.

The REAADS anti-SSA ELISA is a highly specific and sensitive test for anti-SSA 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 REAADS Anti-SSA 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 U/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



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