

Anti-Nuclear Antibody (ANA) Screen ELISA

Diagnostic assay for detection of ANA in autoimmune disorders



BACKGROUND

Anti-nuclear antibodies (ANA) are important markers of autoimmune disease. The presence of ANA is one of the classification criteria for systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), and Sjögren's syndrome. ANA are also useful as an aid in determining the proper diagnosis of various rheumatic diseases.

Indirect immunofluorescence (IFA) microscopy has been the standard method for detecting ANA in human sera.

However, individual laboratories may consider IFA to be a cumbersome and subjective method. As a result, other methods have been developed as alternatives to IFA. Enzyme-linked immunosorbent assays (ELISA) offer a promising alternative. The IMMCO ANA Screen ELISA provides a reliable method for detecting ANA. This assay meets the criteria recently established by The Italian Society of Laboratory Medicine Study Group on the Diagnosis of Autoimmune Diseases¹.

The ANA Screen ELISA is a simple, objective and accurate test that can be performed manually or on standard instrumentation.

1. Am J Clin Pathol. 2002; 117: 316-24

PERFORMANCE

The ImmuLisa™ ANA Screen ELISA has been validated for the detection of the following antibodies:

- Anti-SS-A (Ro)
- Anti-SS-B (La)
- Anti-Sm
- Anti-RNP
- Anti-Scl-70
- Anti-Jo-1
- Anti-Centromere
- Anti-Histone
- Anti-dsDNA

This assay compares well with commercially available HEp-2 IFA methods. The results of one comparative study on 292 clinical samples indicated:

- Relative Agreement: 96%
- Relative Sensitivity: 95%
- Relative Specificity: 96%



ANTI-NUCLEAN ANTIBODY (ANA) AND EXTRACTABLE NUCLEAR ANTIGEN (ENA) ELISA KITS

CODE	DESCRIPTION	DETERMINATIONS
1175	ANA Screen ELISA	96
1128	Anti-SS-A (Ro) ELISA	96
1129	Anti-SS-B (La) ELISA	96
1127	Anti-Sm ELISA	96
1126	Anti-Sm/RNP ELISA	96
1150	Anti-Scl-70 ELISA	96
1151	Anti-Jo-1 ELISA	96
1119	Anti-Histone ELISA	96
1120	Anti-dsDNA ELISA	96

In addition to ELISA methods IMMCO offers a broad range of IFA for identification of specificities of ANA.



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