

The presence of anti-nuclear and anti-cytoplasmic antibodies is indicative of systemic autoimmune diseases and can be used in conjunction with other clinical findings to aid in diagnosis of systemic lupus erythematosus, rheumatoid arthritis, Sjogren's syndrome, scleroderma, hepatitis, and other mixed connective tissue diseases¹⁻³. Anti-nuclear antibodies (ANA) are detected by indirect immunofluorescence on slides coated with Hep-2 cells. Positive results include the pattern of fluorescence and titer between 1:80 and 1:2560. All samples positive for ANA are reflexively tested for extractable nuclear antibodies (ENA) and anti-double stranded DNA antibodies. Slides with mouse stomach, liver, and kidney tissue are used to detect anti-cytoplasmic antibodies, including anti-liver/kidney microsomal antibody (ALKMA), anti-mitochondrial antibody (AMA), anti-parietal cell antibody (APCA), and anti-smooth muscle antibody (ASMA). Positive results are reported as 1+ to 4+ to indicate relative strength of the antibody. For more information, call the lab at 513-636-9820.

Sample:

The only acceptable sample for this assay is serum collected in a gold top (SST) tube.

Requested volume: 1mL

Shipping Conditions:

- Ambient if sent within 24 hours
- On wet ice if sent >24 hours after collection

Testing Schedule:

Autoantibody screening is performed Thurs on first shift. For testing outside of this schedule, call the lab at 513-636-9820. **TAT:** 1-7 days

CPT Codes:

86008

Clinical Lab Index:

<https://www.testmenu.com/cincinnatichildrens/Tests/662828>

Contact Information:

Cincinnati Children's Division of Pathology
Molecular and Genomic Pathology Services (MGPS)

Phone: 513-636-9820

Fax: 513-803-2941

Email: pathology@cchmc.org

Website: cincinnatichildrens.org/pathology

For pricing or billing questions, call 513-803-9264.

Shipping Address:

Cincinnati Children's Hospital Medical Center
Lab Processing, B4.127

Attn: Molecular and Genomic Pathology Services (MGPS)

3333 Burnet Ave.

Cincinnati, OH 45229

References:

1. Tan E. Autoantibodies to nuclear antigens (ANA): their immunobiology and medicine. *Adv Immunol.* 33:167-240. 1982.
2. Adams B, Mutasim D. The diagnostic value of anti-nuclear antibody testing. *Int J Dermatol.* 39:887-891. 2000.
3. Autoimmune Disease State Overview, <http://www.inovadx.com/store/categories/disease-state/80>, Inova Diagnostics, Inc. 10180 Scripps Ranch Blvd., San Diego, CA, 92131.