

# **Test Definition: FDAIP**

**Diabetes Autoimmune Profile** 

## Overview

### **Useful For**

Diabetes autoantibodies assessment is helpful in identifying and managing patients at risk for development of type 1 diabetes.

Method Name Enzyme-Linked Immunosorbent Assay (ELISA), Radioimmunoprecipitation

NY State Available

No

## Specimen

Specimen Type

Serum

Specimen Required Collection Container/Tube: Preferred: Serum gel Acceptable: Red top Submission Container/tube: Plastic vial Specimen Volume: 2.5 mL Collection Instructions: 1. Within 24 hours of collection, centrifuge and aliquot 2.5 mL of serum into a plastic vial. 2. Freeze within 24 hours and send frozen.

#### Specimen Minimum Volume

1 mL (Note: This volume does **not** allow for repeat testing)

#### Reject Due To

Gross	Reject
hemolysis	
Thawing	Cold OK; Warm reject
Lipemia	Reject
EDTA plasma	Reject

#### **Specimen Stability Information**

Specimen Type Temperature	Time	Special Container
---------------------------	------	-------------------



# **Test Definition: FDAIP**

# **Diabetes Autoimmune Profile**

Serum	Frozen	7 days	

# Clinical & Interpretive

## **Reference Values**

Insulin Antibodies <5.0 uU/mL: Negative > or =5.0 uU/mL: Positive

Anti GAD 65 Antibodies <5.0 U/mL: Negative > or =5.0 U/mL: Positive

IA-2 Autoantibodies <7.5 U/mL: Negative > or =7.5 U/mL: Positive

ZNT8 Antibodies <15 U/mL: Negative > or =15 U/mL: Positive Reference ranges apply to all ages.

#### Interpretation

Published positivity rates for diabetes autoantibodies in new-onset type 1 diabetes patients listed below are based on the combined analysis of GAD-65, ICA 512, insulin antibodies, and ZNT8 antibodies. The combined analysis has a 98% autoimmunity detection rate, with 1.8% of type 1 diabetic individuals remaining as autoantibody-negative.(1)

Positive rate in new-onset type 1 diabetes patients: GAD-65 antibodies = 68% positive ICA 512 antibodies = 72% positive Insulin antibodies = 55% positive ZnT8 antibodies = 63% positive

An increase in the number of positive antibodies is associated with a higher likelihood of type 1 diabetes.

Less than 3% of type 2 diabetics have positive antibodies.

### **Clinical Reference**

1. Wenzlau JM, Juhl K, Yu L, et al. The cation efflux transporter ZnT8 (Slc30A8) is a major autoantigen in human type 1 diabetes. Proc Natl Acad Sci U S A. 2007;104(43):17040-17045. doi:10.1073/pnas.0705894104

## Performance



# **Test Definition: FDAIP**

**Diabetes Autoimmune Profile** 

PDF Report

Day(s) Performed Varies

Report Available 10 to 19 days

**Performing Laboratory Location** 

Esoterix Endocrinology

Fees & Codes

#### Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

#### **Test Classification**

Insulin Antibodies: This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

# **CPT Code Information**

86337 86341x3

### LOINC<sup>®</sup> Information

Test ID	Test Order Name	Order LOINC <sup>®</sup> Value
FDAIP	Diabetes Autoimmune Profile	Not Provided

Result ID	Test Result Name	Result LOINC <sup>®</sup> Value
Z6377	Insulin Antibodies	8072-1
Z6378	Anti GAD 65 Antibodies	56540-8
Z6387	IA-2 Autoantibodies	31209-0
Z6388	ZNT8 Antibodies	76651-9
Z6389	Type 1 Diabetes Interpretation	8251-1