

## Overview

**Method Name**

ELISA

**NY State Available**

Yes

## Specimen

**Specimen Type**

Plasma EDTA

**Specimen Required****Specimen Type:** Platelet-free Plasma**Container/Tube:** lavender top EDTA**Specimen Volume:** 1 mL**Collection Instructions:** Draw blood in a lavender top (EDTA) tube(s).

Following centrifuge instructions below, spin down and send 1 mL platelet-free plasma frozen in plastic vial.

Centrifuge for 15 minutes at 1000 x g within 30 minutes of collection. Centrifuge plasma again at 3000 x g for 10 minutes for complete platelet removal. Freeze at -20 degrees C or below.

For fixed speed centrifuges such as 645e: Collect in lavender top tube using EDTA as an anticoagulant. Centrifuge 3 times for 10 minutes at 1600 x g while decanting the plasma each time before the next spin within 30 minutes of collection.

Freeze at -20 degrees C or below.

**Specimen Minimum Volume**

0.25 mL

**Reject Due To**

Gross hemolysis	Reject
Gross lipemia	Reject
List other reasons for rejection	Specimens with particulate matter or microbial contamination

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Plasma EDTA	Frozen	14 days	

## Clinical & Interpretive

### Clinical Information

Transforming growth factor (TGF) play a crucial role in tissue regeneration, cell differentiation, embryonic development, and regulation of the immune system. Transforming growth factor beta is found in hematopoietic (blood-forming) tissue and initiates a signaling pathway that suppresses the early development of cancer cells. It enhances the deposition of extracellular matrix and may play potential role in wound healing and cirrhosis formation. Many cells synthesize TGF-b and almost all of them have specific receptors for this peptide.

### Reference Values

344-2382 pg/mL

## Performance

### Method Description

This quantitative assay employs sandwich ELISA method. Microwells are pre-coated with antibodies against TGF-b1. The diluted patient samples (after activation) are added into the wells and any TGF-b1 present remains bound to the plate. After washing the wells, peroxidase labeled anti-TGF-b1 antibodies are added. Bound conjugate is visualized with TMB substrate and intensity of color is proportional to the concentration of TGF-b1 in the sample. Stop dilution is added to each well to stop the reaction.

### PDF Report

No

### Day(s) Performed

Varies, 2 days per week

### Report Available

6 to 8 days

### Performing Laboratory Location

BioAgilytix Diagnostics

## Fees & Codes

### Fees

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

**Test Classification**

The performance characteristics of the listed assay was validated by BioAgilytix Diagnostics. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. BioAgilytix Diagnostics is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

**CPT Code Information**

83520

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
FHTGF	Human Transforming Growth Factor b1	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z6269	TGF-b1	Not Provided