

## Overview

### Method Name

Prostaglandin D2 is measured by EIA/ELISA following extractions of specimens.

### NY State Available

No

## Specimen

### Specimen Type

Serum

### Specimen Required

#### Patient preparation:

Patient should NOT be on any aspirin, indomethacin, or anti-inflammatory medications, if possible, for at least 48 hours prior to collection of specimen.

#### Serum

**Specimen Type:** Serum

**Container/Tube:** Red top

**Specimen Volume:** 3 mL

**Collection Instructions:** Draw blood in a plain, red-top tube(s), serum-gel tube(s) is acceptable. Separate immediately and send 3 mL of serum frozen in a plastic vial.

### Reject Due To

Hemolysis NA

Lipemia Mild reject; Gross reject

Icterus Mild reject; Gross reject

Other Specimens other than Serum or Plasma EDTA. Test is strict frozen.

### Specimen Minimum Volume

1 mL

### Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	60 days	

## Clinical & Interpretive

### Clinical Information

Prostaglandins are fatty acids derived from arachidonic acid metabolism. They are closely related to the Thromboxanes

and Leukotrienes. Prostaglandin D2 is derived mainly from Prostaglandin H2, and is metabolized to Dihydroketo Prostaglandin D2. Prostaglandin D2 is excreted directly into the urine. The sites of highest Prostaglandin D2 activity are the brain, spinal cord, intestines, and stomach. Prostaglandin D2 is the major Prostaglandin produced by uterine tissue. Prostaglandin D2 is a potent bronchoconstrictor, neuromodulator, and anti-antithrombin agent. It also stimulates the secretion of Pancreatic Glucagon. Prostaglandin D2 has been found to have an anti-metastatic effect on many malignant tumor cells. Prostaglandin D2 production and circulating levels are drastically suppressed by aspirin and Indomethacin.

**Reference Values**

Adult Reference Range(s): 35 - 115 pg/mL

No pediatric reference ranges available for this test.

**Performance****PDF Report**

No

**Performing Laboratory Location**

Inter Science Institute

**Fees & Codes****Test Classification**

This test was performed using a kit that has not been cleared or approved by the FDA and is designated as research use only. The analytic performance characteristics of this test have been determined by Inter Science Institute. This test is not intended for diagnosis or patient management decisions without confirmation by other medically established means.

**CPT Code Information**

84150