# DRLOGY PATHOLOGY LAB

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📞 0123456789 | 0912345678

✉ drlogypathlab@drlogy.com

105 -108, SMART VISION COMPLEX, HEALTHCARE ROAD, OPPOSITE HEALTHCARE COMPLEX. MUMBAI - 689578

www.drlogy.com

**Yash M. Patel**

Age : 21 Years

Sex : Male

PID : 555

**Sample Collected At:**

125, Shivam Bungalow, S G Road, Mumbai

Ref. By: **Dr. Hiren Shah**

0 35545 62336 78 1

**Registered on:** 02:31 PM 02 Dec, 2X

**Collected on:** 03:11 PM 02 Dec, 2X

**Reported on:** 04:35 PM 02 Dec, 2X

## DIGOXIN

| Investigation | Result | | Reference Value | Unit |
|---|---|---|---|---|
| Primary Sample Type : | Serum | | | |
| **DIGOXIN, SERUM** <br> CLIA | **5.50** | **High** | 0.50 - 2.00 | ng/mL |

**Interpretation:**

| RESULT in ng/mL | REMARKS |
|---|---|
| 0.80 | Minimum effective concentration |
| 0.80 - 2.00 | Therapeutic range |
| > 2.00 | Toxic range in Adults |
| > 4.00 | Toxic range in Children |

**Note :**

- Gastrointestinal absorption is decreased in Sprue, Small intestinal resection, high fiber diets, Hyperthyroidism, and increased gastrointestinal motility.
- Co-administration of Cyclosporine, Protease inhibitors, Quinidine, or Verapamil prolongs the rate of clearance requiring dose adjustment

**Comments :**

Digoxin is a commonly used drug in the management of Congestive heart failure and Supraventricular tachycardia. Increased sensitivity to Digoxin is noted in states of Hypokalemia, Hypomagnesemia, and Hypercalcemia making the establishment of true therapeutic concentration difficult because all parameters are interactive. There is a difference between peak plasma concentration and peak tissue concentration of Digoxin. The clinically effective range for Digoxin is not determined at the peak plasma concentration (2-3 hours after oral dose), but rather at the time of peak tissue concentration (6-8 hours after oral dose). To ensure a correlation between plasma and tissue concentrations the appropriate time to collect the specimen is 8 hours or more after the dose.

Thanks for Reference                    ****End of Report****

**Medical Lab Technician**

(DMLT, BMLT)

**Dr. Payal Shah**

(MD, Pathologist)

**Dr. Vimal Shah**

(MD, Pathologist)

**Sample Collection**

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