



ADVANCED  
LAB 3

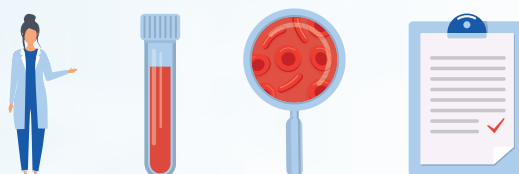
# BLOOD TESTING

## COMPREHENSIVE PANELS

Our Comprehensive Blood Diagnostics Panel offers a wide array of individual tests that encompass chemistry, hematology, and immunology to provide a thorough examination of a patient's health. Utilizing cutting-edge laboratory technology, we are equipped to detect and measure various blood components to diagnose, monitor, and manage health conditions effectively.

The Blood Diagnostics Panel harnesses advanced testing techniques to deliver a complete profile of a patient's metabolic health, assess organ function, and evaluate the immune system's response. From essential metabolic markers like glucose and cholesterol to specialized immunoglobulins, our panel is meticulously designed to provide detailed insights into the intricate workings of the human body.

**SAMPLE TYPE : Whole Blood**



**(For Provider's Reference)**

Results within  
**24 Hours**  
from arrival at lab

## DIAGNOSTIC TESTS OFFERED

Our comprehensive reports provide detailed quantitative and qualitative analysis, supporting healthcare professionals in making informed decisions for patient care.

Testing panel is not limited to the below

### Chemistry

- Albumin (Alb)
- Alkaline Phosphatase (ALP)
- ALT (SGPT)
- Amylase Serum
- AST (SGOT)
- Bilirubin Direct
- Bilirubin Total
- BUN (Urea Nitrogen)
- Calcium
- Cholesterol
- CK (Creatine Kinase)
- CO2
- C-Reactive Protein (CRP)
- Creatinine w/eGFR Creatinine
- Carbamazepine
- Chloride
- Cystatin
- Glucose
- GGT (Gamma-Glutamyl Transferase)
- HBAIC
- HDL-C
- Iron
- LDL-C
- Lipase

- Lithium
- Microalbumin
- Phosphorus
- Potassium (K)
- Sodium (Na)
- Transferrin
- Total Protein
- Triglycerides
- Uric Acid
- UIBC (Unsaturated Iron-Binding Capacity)
- Valporic Acid

### Immunology

- Anti-TG
- Anti-TPO (Anti-Thyroid Peroxidase)
- BNP (B-type Natriuretic Peptide)
- C-Peptide
- Cortisol
- DHEA-S
- Estradiol
- Ferritin
- Folate
- FSH (Follicle-Stimulating Hormone)
- Homocysteine
- Intact PTH (Parathyroid Hormone)

- Immunoglobulin A (IgA)
- Immunoglobulin G (IgG)
- Immunoglobulin M (IgM)
- Insulin
- NT-Pro BNP (N-Terminal Pro)
- Prolactin
- Progesterone
- PSA Total
- PTH (Parathyroid Hormone)
- RF (Rheumatoid Factor)
- SHBG (Sex Hormone-Binding Globulin)
- T3 Free
- T3 Total
- T4 Free
- T4 Total
- Testosterone
- TSH
- Vitamin B12
- Vitamin D, 25 OH

### Hematology

- CBC (w/diff) Complete Blood Count with differential

**Contact Advanced Lab 3 at**

847-873-8012 | info@myadvancedlab.com | myadvancedlab.com  
1800 McDonough Rd Suite 209, Hoffman Estates, IL 60192.

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 Fax: (847) 385-3072  
 Email: info@myadvancedlab.com

**ADVANCED LAB 3**

Lab Director: Harsukh Gevariya Ph.D., (NRCC-CC)  
 CLIA: 14D2245475

Practice Information	Patient Information	Specimen Information
<b>Facility :</b> Test <b>Contact No :</b> Test <b>Address :</b> Test <b>Provider :</b> Test	<b>Patient Name :</b> 879 DUMMY <b>DOB :</b> 2020-01-03 <b>Age :</b> 4 Yrs 3 M <b>Gender :</b> Male <b>Patient ID :</b> 824	<b>Accession No. :</b> AD240400064E <b>Specimen Type :</b> Edta Plasma <b>Date Collected :</b> Apr 02,2024 05:11 PM <b>Date Resulted :</b> Apr 02,2024 05:14 PM <b>Date Reported :</b> Apr 02,2024 05:16 PM

Tests	Results	Flag	Ref Ranges	Unit
Globulin Method : CALC	<b>5.5</b>	<b>HIGH</b>	2.0 - 4.8	I.U/M.L
FERRITIN	<b>11</b>	<b>LOW</b>	22 - 340	ng/mL
UIBC	200	NORMAL	155 - 355	µg/dl
FSH	2	NORMAL	Adult Male (mIU/mL): 1.5–12.4. Adult Female (mIU/mL) Follicular: 3.5–12.5 Ovulatory: 4.7–21.5 Luteal: 1.7–7.7 Postmenopausal: 25.8–134.8	mIU/ml
Creatinine	0.69	NORMAL	0.67 - 1.17	mg/dL
Cystatin	1.1	NORMAL		mg/dL
GFR, Estimated	0.26	NORMAL	>59	mL/minute/1.73 m2

**Note**

1. National Kidney Disease Education program recommends the use of MDRD equation to estimate or predict GFR in adults (>=20 years) with Chronic Kidney Disease (CKD)
2. MDRD equation is most accurate for GFR <=60 mL/min/1.73m2
3. Recalculation of estimated GFR is required for African American race.

CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2)	ASSOCIATED FINDINGS
0	Normal kidney function	>90	No proteinuria
1	Kidney damage with normal or high GFR	>90	Presence of Protein, albumin, cells or casts in urine
2	Mild decrease in GFR	60 - 89	-

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Tests	Results	Flag	Ref Ranges	Unit
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3	Moderate decrease in GFR	30 - 59	-	
4	Severe decrease in GFR	15 - 29	-	
5	Kidney failure	<15	-	

**Comments**

Modification of diet in renal disease (MDRD) equation is most thoroughly validated and superior to all the other methods for estimation of GFR. It does not require weight as a variable and yields an estimated GFR normalized to 1.73m<sup>2</sup> body surface area. Using serum creatinine alone gives a poor inference of GFR because they are inversely related and effects of age, sex and race on creatinine production complicate interpretation. For African American races a modified formula is used for calculation of GFR.

Progesterone	0.2	NORMAL	Women- Follicular: 0.057 - 0.893 ng/mL. Ovulation: 0.121 - 12.0 ng/mL Luteal: 1.83 - 23.9 ng/mL Postmenopause: 0 - 0.126 ng/mL Pregnant women (trimester): 1st:- 11.0 - 44.3 ng/mL 2nd:- 25.4 - 83.3 ng/mL 3rd:- 58.7 - 214 ng/mL MEN:<1 ng/mL	ng/ml
Vitamin D (25 - Hydroxy)	22	NORMAL	8.9 - 44.7	ng/mL

**THYROID PANEL**

T3 Total (Triiodothyronine)	<b>1.9</b>	<b>HIGH</b>	0.7 - 1.7	ng/dL
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Tests	Results	Flag	Ref Ranges	Unit
TSH Thyroid Stimulating Hormone	<b>5.5</b>	<b>HIGH</b>	0.5 - 5.0	mIU/L
Free T3	<b>0.5</b>	<b>LOW</b>	2 - 4.9	pg/mL
Free T4	<b>0.5</b>	<b>LOW</b>	0.75 - 1.54	ng/dL
<b><u>LIPID PANEL</u></b>				
CHOLESTEROL	150	NORMAL	<200 Desirable 200-239 Borderline High >240 High	mg/dL
TRIGLYCERIDE	100	NORMAL	<150 Normal 150-199 Borderline High 200-499 High ≥500 Very High	mg/dL
HDL	<b>105</b>	<b>HIGH</b>	23 - 92	mg/dL
LDL-C	<b>100</b>	<b>HIGH</b>	0 - 99	mg/dl
Cortisol (Serum)	15	NORMAL	10.4 - 26.4	µg/dl
DHEA	150	NORMAL	Ages 20 to 29: 65 to 380 µg/dL. Ages 30 to 39: 45 to 270 µg/dL. Ages 40 to 49: 32 to 240 µg/dL. Ages 50 to 59: 26 to 200 µg/dL.	µg/dL
Luteinising Hormone-LH Method : Serum, CLIA	7	NORMAL	Males (20-70 yrs) :1.5 - 9.3 (>70 yrs) : 3.1 - 34.6 Children :<0.1 - 6.0	mIU/mL
PSA	<b>5</b>	<b>HIGH</b>	0.24 - 4	ng/mL

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Tests	Results	Flag	Ref Ranges	Unit
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Anti TPO, Microsomal Antibody Method : Serum, CMIA	3	NORMAL	<= 5.61	IU/mL
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**Remark:**

The presence of TPO antibodies suggests that the cause of thyroid disease is an autoimmune disorder, such as Hashimoto's disease or Graves' disease.

Folic Acid Method : Serum, CMIA	2	LOW	3 - 17	ng/mL
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**Interpretation**

- Decreased levels of folic acid are seen in megaloblastic anemia, malnutrition, alcoholism, and inadequate dietary intake are associated with a higher risk of fetal malformations during pregnancy.
- In patients taking methotrexate therapy, antibodies formed may interfere with the assay.

**Abbreviation :** CMIA : Chemiluminescence Microparticle Immunoassay

Lipase Method : Spectrophotometry	90	HIGH	11 - 82	U/L
CRP Latex	1.5	HIGH	Less than 0.3	mg/dL
Vitamin B12 Method : CLIA	1500	HIGH	230 - 1050	pg/mL
Uric Acid	5	NORMAL	2.3 - 7.6	mg/dL

**CMP (Complete Metabolic Panel)**

SODIUM	149	HIGH	136 - 145	mEq/L
POTASSIUM	6.5	Critical	3.5 - 5.1	mEq/L
CHLORIDE	110	HIGH	98 - 107	mEq/L
GLUCOSE	115	HIGH	70 - 110	mg/dL
BUN	30	HIGH	7 - 25	mg/dL
CREATININE	0.3	LOW	0.6 - 1.3	mg/dL
BUN/CREA RATIO	100	HIGH	8.0 - 36.0	CALC
CALCIUM	11	HIGH	8.6 - 10.2	mg/dL

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Tests	Results	Flag	Ref Ranges	Unit
TOTAL PROTEIN	<b>9</b>	<b>HIGH</b>	6.4 - 8.9	g/dL
ALBUMIN	4	NORMAL	3.5 - 5.7	g/dL
A/G RATIO	0.80	NORMAL	0.6 - 2.2	CALC
ALK PHOS	104	NORMAL	34 - 104	U/L
ALT	46	NORMAL	7 - 52	U/L
AST	<b>45</b>	<b>HIGH</b>	13 - 39	U/L
TOTAL BILIRUBIN	.5	NORMAL	0.3 - 1.0	mg/dL
eGFR	75	NORMAL	59 - -	mg/dL
CO2	26	NORMAL	21 - 31	mg/dL
Insulin	<b>50</b>	<b>HIGH</b>	< 17	μU/mL
Estradiol	30	NORMAL	25-75	pg/mL
GGT	60	NORMAL	9 - 64	IU/L
<b>Parathyroid Hormone (PTH)-Intact</b>	25	NORMAL	15.0-88.0	pg/ml

Method : Serum, CLIA

**Interpretation :**

Intact PTH has been demonstrated to be labile and is susceptible to fragmentation. This instability depends on both time and temperature . In room temperature EDTA sample stability is 8 hours and serum is for 4 hours. At 4degree C. EDTA sample stability is 72 hours and serum is for 48 hours.

Amylase	100	NORMAL	29 - 103	IU/L
Transferrin	250	NORMAL	215 - 380	mg/dl
FERRITIN	<b>350</b>	<b>HIGH</b>	22 - 340	ng/mL
Iron	<b>35</b>	<b>LOW</b>	50 - 212	

**HORMONE PANEL**

T3 Total (Triiodothyronine)	<b>2.5</b>	<b>HIGH</b>	0.7 - 1.7	ng/dL
TSH Thyroid Stimulating Hormone	<b>5.5</b>	<b>HIGH</b>	0.5 - 5.0	mIU/L
Free T3	<b>5</b>	<b>HIGH</b>	2 - 4.9	pg/mL

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Tests	Results	Flag	Ref Ranges	Unit
Free T4	<b>0.5</b>	<b>LOW</b>	0.75 - 1.54	ng/dL
Cortisol	25	NORMAL	10.4 - 26.4	µg/dl
Prolactin	14	NORMAL	3.3 - 16.3	ng/mL
PSA	3	NORMAL	0.24 - 4.0	ng/mL
DHEA	1.5	NORMAL	1.2 - 6.3	ng/mL
Method : EIA				
Testosterone	<b>900</b>	<b>HIGH</b>	262 - 870	ng/dL
Valproic Acid	<b>25</b>	<b>LOW</b>	50 - 100	µg/mL
Lithium	<b>2</b>	<b>HIGH</b>	0.5 - 1.2	mmol/L
Method : Serum, Colorimetry				
Carbamazepine	<b>15</b>	<b>HIGH</b>	4 - 12	mcg/mL
<b>Complete Blood Count</b>				
RBC Count	4.1	NORMAL	3.87 - 5.68	*10 <sup>3</sup> /uL
Total WBC Count	<b>3.5</b>	<b>LOW</b>	3.71 - 10.67	*10 <sup>3</sup> /uL
Haemoglobin	<b>17.5</b>	<b>HIGH</b>	12 - 16.75	gm/dl
Haematocrit (HCT)	45	NORMAL	35.1 - 48.7	%
MCV	<b>109.76</b>	<b>HIGH</b>	78.4 - 97.6	fL
MCH	<b>42.68</b>	<b>HIGH</b>	26.5 - 33.5	pg
MCHC	<b>38.89</b>	<b>HIGH</b>	32.9 - 35.4	gm/dL
RDW-CV	14	NORMAL	12.7 - 15.6	%
RDW-SD	40	NORMAL	38.9 - 49.0	fL
Platelet Count	<b>375</b>	<b>HIGH</b>	150.5 - 366.8	*10 <sup>3</sup> cells/uL
MPV	<b>12</b>	<b>HIGH</b>	7.42 - 10.77	fL
Lymphocytes	<b>49</b>	<b>HIGH</b>	18.94 - 46.71	%
Monocytes	<b>13.5</b>	<b>HIGH</b>	4.88 - 12.81	%

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Neutrophil	<b>82</b>	<b>HIGH</b>	40.62 - 71.65	%
Eosinophil	<b>0.5</b>	<b>LOW</b>	0.74 - 6.73	%
Basophils	0.4	NORMAL	0.05 - 0.48	%
Lymphocytes#	2.6	NORMAL	1.15 - 3.52	*10 <sup>3</sup> /uL
Monocytes#	.27	NORMAL	0.25 - 0.99	*10 <sup>3</sup> /uL
Neutrophil#	<b>1.5</b>	<b>LOW</b>	1.85 - 6.72	*10 <sup>3</sup> /uL
Eosinophil#	<b>0.5</b>	<b>HIGH</b>	0.04 - 0.48	*10 <sup>3</sup> /uL
Basophils#	0.03	NORMAL	0.00 - 0.03	*10 <sup>3</sup> /uL
<b>HbA1c</b>	<b>8</b>	<b>HIGH</b>	Prediabetic 5.7-6.4% Diabetic >= 6.5%	%

**Interpretation**

As per American Diabetes Association (ADA)	
Reference Group	HbA1c in %
Non diabetic adults >=18 years	<5.7
At risk (Prediabetes)	5.7 - 6.4
Diagnosing Diabetes	>= 6.5
Therapeutic goals for glycemic control	Age > 19 years Goal of therapy: < 7.0 Action suggested: > 8.0 Age < 19 years Goal of therapy: <7.5

**\*\*END OF REPORT\*\***

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**ADVANCED  
LAB 3**

**Patient Name : BLOOD TREND**  
**Age/Gender : 24 years, Male**  
**Mobile No :**  
**Referral : Test**

**Patient ID : 2173**  
**Collected On : Mar 30, 2024, 05:51 p.m.**  
**Reported On : Mar 30, 2024, 05:58 p.m.**  
**Organization : DIRECT**

**Your Health Trend Report**

**CMP (Complete Metabolic Panel) :**

Test Name - (Unit)	30 Mar 24	30 Mar 24	Result Trends
<b>SODIUM</b> - (mEq/L) Normal Ranges : 136 - 145	140	145	
<b>POTASSIUM</b> - (mEq/L) Normal Ranges : 3.5 - 5.1	3	3.7	
<b>CHLORIDE</b> - (mEq/L) Normal Ranges : 98 - 107	105	100	
<b>GLUCOSE</b> - (mg/dL) Normal Ranges : 70 - 110	75	70	
<b>BUN</b> - (mg/dL) Normal Ranges : 7 - 25	10	18	
<b>CREATININE</b> - (mg/dL) Normal Ranges : 0.6 - 1.3	1	1	
<b>BUN/CREA RATIO</b> - (CALC) Normal Ranges : 8.0 - 36.0	10	18	
<b>CALCIUM</b> - (mg/dL) Normal Ranges : 8.6 - 10.2	11.5	8	
<b>TOTAL PROTEIN</b> - (g/dL) Normal Ranges : 6.4 - 8.9	7	6.9	

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**Organization : DIRECT**

**Your Health Trend Report**

<b>ALBUMIN - (g/dL)</b> Normal Ranges : 3.5 - 5.7	5	5	
<b>A/G RATIO - (CALC)</b> Normal Ranges : 0.6 - 2.2	2.50	2.63	
<b>ALK PHOS - (U/L)</b> Normal Ranges : 34 - 104	190	30	
<b>ALT - (U/L)</b> Normal Ranges : 7 - 52	15	40	
<b>AST - (U/L)</b> Normal Ranges : 13 - 39	20	35	
<b>TOTAL BILIRUBIN - (mg/dL)</b> Normal Ranges : 0.3 - 1.0	1	.8	
<b>eGFR - (mg/dL)</b> Normal Ranges : 59 - -	70	80	
<b>CO2 - (mg/dL)</b> Normal Ranges : 21 - 31	30	26	

**DESCRIPTION PARAMETERS**

Investigation	30 Mar 24	30 Mar 24
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