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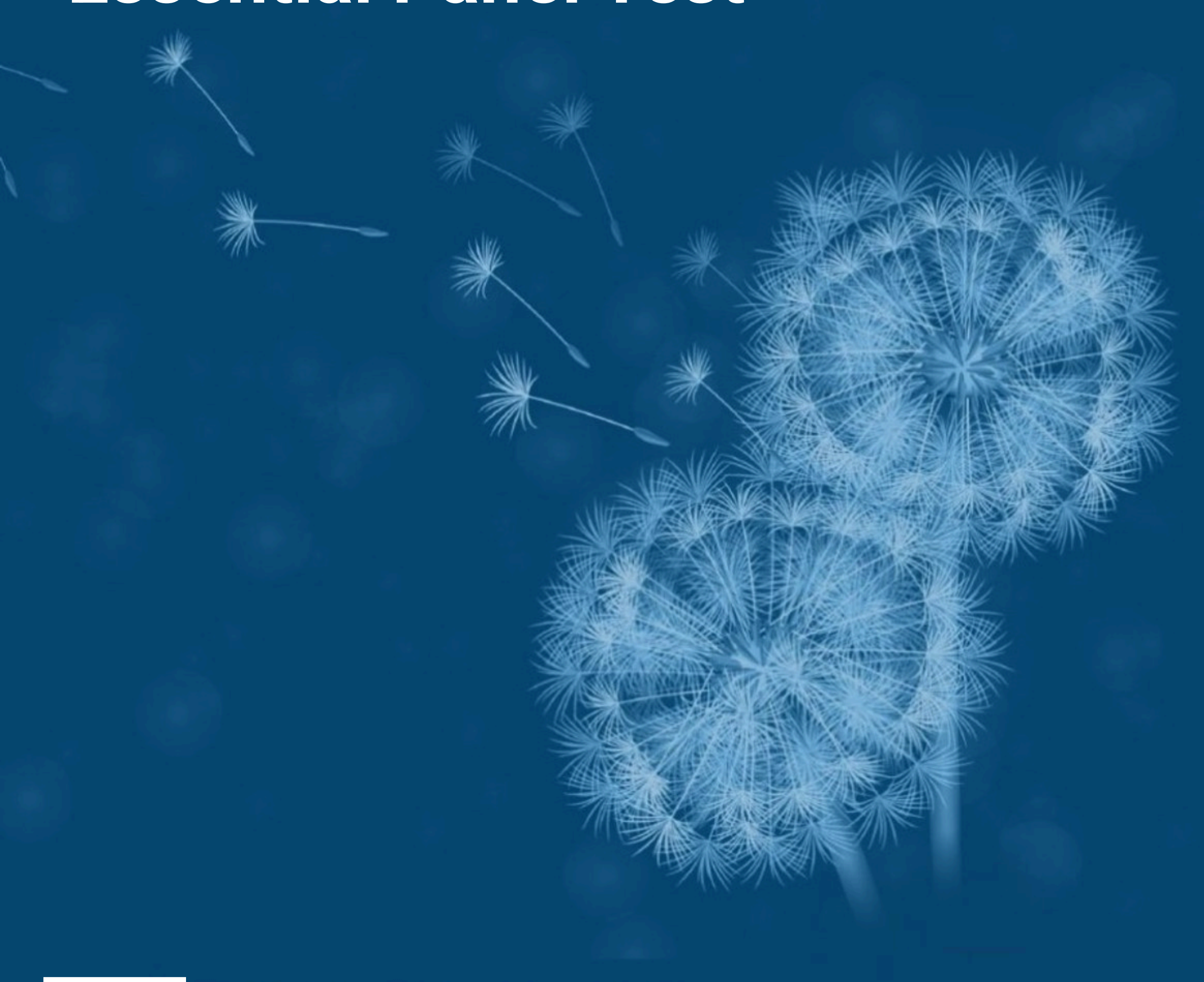
Allergy Panel

Comprehensive Allergy Essential Panel Test



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LABORATORY REPORT

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Patient Name	:		
Age/Gender	:	**Bill Date**	:
Patient ID/UHID	:	**Sample Collected**	:
Referred By	:	**Sample Received**	:
Sample Type	:	**Report Date**	:
Barcode No	:	**Report Status**	:

Test Name	Result	Unit	Ref. Interval
Total-IgE Method: ECLIA	21.6	IU/mL	0.0 - 100.0

Clinical Significance:

The level of total IgE rises during childhood and reaches adult levels during the teens. IgE is the mediator of the allergic response. Patients with atopic disease, including allergic asthma, allergic rhinitis, and atopic dermatitis commonly have moderately elevated serum IgE levels. Total serum IgE levels may also be elevated in the presence of some clinical conditions that are not related to allergy. These clinical conditions include parasitic infections, immunodeficiency states, autoimmune diseases, Hodgkin's disease, bronchopulmonary aspergillosis, IgE myeloma, and Sezary syndrome.

Conditions of Reporting: All Lab results are subject to clinical interpretation by a qualified medical professional & This report is not subject to use for any medico-legal purpose.

Following Allergens (Abnormal Values) Require Special Attention and Precaution:NA

Note: This is a sample report for illustrative purpose only. Actual report may vary

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Patient Name:	:	**Barcode No**	:
Age/Gender	:	**Lab No**	:

Normal value for all allergens is <0.36 IU/mL

VEGETABLES

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Tomato	<0.36		Carrot	<0.36		Potato	<0.36
	Onion	<0.36		Sweet Potato	<0.36		Spinach	<0.36
	Lettuce	<0.36		Cabbage	<0.36		Sweet Pepper	<0.36
	Pumpkin	<0.36		Turnip	<0.36		Broccoli	<0.36
	Egg Plant	<0.36		CauliFlower	<0.36		Beet	<0.36
	Pea	<0.36		Soya Bean	<0.36		French Bean	<0.36
	Mushrooms	<0.36		Tofu (Bean Curd)	<0.36		Cucumber	<0.36
	Radish	<0.36						

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Age/Gender	:	**Lab No**	:

FRUITS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Orange	<0.36		Strawberry	<0.36		Apple	<0.36
	Kiwi	<0.36		Melon	<0.36		Mango	<0.36
	Banana	<0.36		Pear	<0.36		Peach	<0.36
	Lemon	<0.36		Pineapple	<0.36		Apricot	<0.36
	Cherry	<0.36		Plum	<0.36		Grape	<0.36
	Guava	<0.36		Papaya	<0.36		Watermelon	<0.36
	Cranberry	<0.36		Lychee	<0.36		Coconut	<0.36
	Pomegranate	<0.36						

DRY FRUITS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Walnut	<0.36		Almond	<0.36		Date	<0.36
	Fig	<0.36		Peanut	<0.36		Raisin	<0.36
	Cashew Nut	<0.36		Pistachio Nut	<0.36		Hazelnut	<0.36

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SPICES

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Fennel	<0.36		Olive	<0.36		Celery	<0.36
	Poppy Seed	<0.36		Cardamon	<0.36		Parsley	<0.36
	Mint	<0.36		Cinnamon	<0.36		Vanilla	<0.36
	Black Pepper	<0.36		Cloves	<0.36		Basil	<0.36
	Ginger	<0.36		Thyme	<0.36		Saffron	<0.36
	Curry	<0.36		Nutmeg	<0.36		Curcuma	<0.36
	Coriander	<0.36		Oregano	<0.36		Rosemary	<0.36
	Garlic	<0.36		Anise	<0.36			

CEREALS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Wheatflour	<0.36		Oats	<0.36		Rice	<0.36
	Millet	<0.36		Barley	<0.36		Semolina	<0.36
	Maize	<0.36						

PULSES / DAL

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Lentil	<0.36		Chick Pea	<0.36			

SEEDS OIL

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Flaxseed	<0.36		Sesame	<0.36		Mustard	<0.36
	Sunflower Seed	<0.36		Pumpkin Seed	<0.36			

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Patient Name:	:	**Barcode No**	:
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BEVERAGES

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Coffee	<0.36		Tea	<0.36		Coconut Milk	<0.36

DAIRY

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Cow Milk	<0.36		Cheese Cheddar	<0.36		Curd	<0.36
	Yogurt	<0.36						

OTHERS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Whole Egg (Hen)	<0.36		Yeast	<0.36		Chocolate	<0.36

SEA FOOD

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Fish (Cod)	<0.36		Crab	<0.36		Shrimp	<0.36
	Tuna	<0.36		Carp Fish	<0.36		Salmon	<0.36
	Sardine	<0.36		Lobster	<0.36		Mackerel	<0.36

MEAT

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Pork	<0.36		Beef	<0.36		Mutton	<0.36
	Duck Meat	<0.36		Chicken Meat	<0.36			

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ANIMALS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Cat Epithelium	<0.36		Dog Epithelium	<0.36		Cow Dander	<0.36
	Dog Dander	<0.36		Pigeon Droppings	<0.36		Goose Feathers	<0.36
	Budgerigar Dropping	<0.36		Budgerigar Feathers	<0.36		Budgerigar Serum Proteins	<0.36
	Goat Epithelium	<0.36		Sheep Epithelium	<0.36		Pig Epithelium	<0.36
	Rabbit Epithelium	<0.36		Chicken Feathers	<0.36		Duck Feathers	<0.36
	Mouse (Epithelium, Serum, Urine, Protein)	<0.36		Cat Dander	<0.36		Canarian Feathers	<0.36
	Pigeon Feathers	<0.36		Turkey	<0.36		Chicken Droppings	<0.36

GRASSES

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Festuca Elatior (Meadow Fescue)	<0.36		Phragmites Communis (Common Reed)	<0.36		Dactylis Glomerata	<0.36
	Timothy grass	<0.36		Cynodon Dactylon	<0.36		Lolium Perenne (Rye-Grass)	<0.36
	Agrostis Stolonifera	<0.36		Sorghum Halepense	<0.36		Anthoxanthum	<0.36

INSECTS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Mosquito	<0.36		Apis Mellifera	<0.36		Vespula Germanica	<0.36
	Blatella Germanica (cockroach)	<0.36		Heterocera Mix (Moth)	<0.36		Housefly Musca	<0.36
	Aedes Comunis (Common Mosquito)	<0.36						

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WEED

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Chenopodium Album	<0.36		Brassica Napus (Rape)	<0.36		Amaranthus	<0.36
	Xanthium Commune	<0.36		Henna	<0.36		Eucalyptus Spp (Gum-Tree)	<0.36
	Morus Alba (Red Mulberry)	<0.36		Acacia Spp (Acacia)	<0.36		Oak Wood	<0.36
	Salix Caprea (Willow)	<0.36		Nart V1 Artemisia Vulgaris (Mugwort)	<0.36			

DUST MITES

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Acarus siro (Flour Mite)	<0.36		Lepidoglyphus	<0.36		Tyrophagus	<0.36
	Glycyphagus	<0.36		Dermatophagoides Farinae	<0.36		Dermatophagoides Pteronyssinus	<0.36
	Dermatophagoides Microceras	<0.36		Eurogly phus Maynei	<0.36		Blomia Tropicalis (House Mite)	<0.36

MOULDS & YEAST

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Penicillium notatum	<0.36		Cladosporium	<0.36		Aspergillus fumigatus	<0.36
	Mucor Racemosus	<0.36		Candida Albicans	<0.36		Alternaria Alternata	<0.36
	Curvularia Lunata	<0.36		Phoma Betae	<0.36		Trichoderma viride	<0.36
	Rhizopus Nigricans	<0.36		Halodes	<0.36			

DUSTS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Tobacco Dust	<0.36		Books Dust	<0.36		House Dust	<0.36
	Hay Dust	<0.36						

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SKIN CONTACT

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Turkey Feathers	<0.36		Cotton Linters	<0.36		Latex	<0.36
	Jute	<0.36		Sheep Wool (Treated)	<0.36		Silk (Bombyx Mori)	<0.36

PARASITE

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	Ascaris	<0.36		Toxocara Canis	<0.36		Anisakis	<0.36

ANTIBIOTICS

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	PENICILLOYL G	<0.36		PENICILLOYL V	<0.36		CO-TRIMOXAZOLE	<0.36
	DOXYCYCLINE	<0.36		PHOSPHOMYCIN	<0.36		CLOXACILLIN	<0.36
	NEOMYCIN	<0.36		CIPROFLOXACIN , HAS	<0.36		OXACILLIN	<0.36
	CHLORAMPHENICOL	<0.36		METRONIDAZOLE	<0.36		CLARITHROMYCIN	<0.36
	NORFLOXACIN , HAS	<0.36		AZITHROMYCIN	<0.36		AMPICILLIN, HAS	<0.36
	AMOXICILLIN, HAS	<0.36		TETRACYCLINE, HAS	<0.36		CEPHALOSPORIN, HAS	<0.36
	GENTAMYCIN, HAS	<0.36		ERYTHROMYCIN, HAS	<0.36		STREPTOMYCIN, HAS	<0.36
	RIFAMPICIN, HAS	<0.36		Bromhexine	<0.36		Ambroxol	<0.36
	Acetylcysteine	<0.36		Vancomycin	<0.36		Theophylline	<0.36
	Ofloxacin	<0.36						

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Patient Name:	:	**Barcode No**	:
Age/Gender	:	**Lab No**	:

PAINKILLER

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	PARACETAMOL	<0.36		ASPIRIN, HAS	<0.36		PIROXICAM	<0.36
	NAPROXEN	<0.36		KETOPROFEN , HAS	<0.36		DICLOFENAC	<0.36
	IBUPROFEN	<0.36						

MULTIVITAMIN

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	PYRIDOXINE	<0.36		THIAMINE (Vitamin B1)	<0.36		COBALAMIN (Vitamin B12)	<0.36
	ASCORBIC ACID (Vitamin C)	<0.36						

ANESTHESIA

Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)	Image	Name	Value (IU/mL)
	LIDOCAINE , HAS	<0.36		BENZOCAINE , HAS	<0.36		GELATIN	<0.36
	PRILOCAINE	<0.36		Diatrazaote	<0.36		Amidotrizoate Meglumine	<0.36

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Patient Name:	:	**Barcode No**	:
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Biological Reference Interval

Method : ELISA

Concentration of IgE, IU/mL	Class	Level of the specific IgE
< 0.36	0	Clinically insignificant
0.36 - 0.71	1	Very Low
0.72 - 3.59	2	Low
3.60 - 17.99	3	Medium
18.00 - 49.99	4	High
50.00 -100	5	Very high
> 100	6	Extremely high

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Interpretation

IgE takes part in occurrence and progress of allergic reactions. On binding allergens, these antibodies obtain an ability to initiate release of a range of vasoactive substances from leukocytes, which define development of allergic symptoms.Definition and quantitative measurement of free allergen-specific IgE concentration have a great importance for diagnosis of allergic diseases and selection of an adequate therapy. Assay results need to be correlated clinically

Limitation of the Test

The Serum specific IgE levels performed using different assays/ platforms may not be comparable owing to the difference in the diagnostic sensitivity & specificity. It is always advisable to consult an allergy specialist. In case the results are found not to be correlating with the clinical history, further testing by Gold standard technique (ImmunoCAP) is recommended. Clinical correlation is advisable in class 0 and class 1 IgE antibodies detection.

Normal levels of IgE do not rule out possibility of IgE dependent allergies as the diagnostic sensitivity of the test depends upon elapsed time between exposure to an allergen and testing, patient age and affected target organs. No close correlation has been demonstrated between severity of allergic reaction and IgE levels.

The presence of a small amount of IgE antibody or cross-reactivity of allergens may result in false positive results.This can occur as certain allergens can exhibit common antigenic determinants leading to antibodies binding other similar allergens. This cross reactivity among different allergens can be observed in allergens like birch pollen, nuts, meadow grass, tomato, ambrosia, melon etc. These false positive results are usually of Class 0 and 1.

Intake of Antihistaminic Drugs may result in false Negative results. It is usually advised to avoid intake of such medications seven days prior to collection of sample.

A negative result against antibiotics (penicillin G, penicillin V, cephalosporin, ampicillin and amoxicillin) doesn't exclude presence of a clinical hypersensitivity to these allergens. This result can be explained by initiation of the allergic reaction that takes place without participation of IgE antibodies or a wrong choice of blood sampling time (before the increase of specific IgE concentration in blood or after their concentration decreases).

Similarly, a negative result to other medications can be observed due non immediate drug hypersensitivity reactions which generally involve IgG antibody and T cells. Other reasons include, excessive inhibition of specific enzymes or off-target occupation of (nonimmune) receptors like hypersensitivity to nonsteroidal anti- inflammatory drugs (NSAIDs) has been related to the inhibition of COX-1 enzyme.

A negative result of specific IgE assay against food-borne allergens and bites of venomous insects doesn't exclude possibility of occurrence of allergy to these allergens.

False-negative results of skin prick and/or blood-specific IgE allergy testing occur in some individuals in the weeks following some anaphylactic reactions. This phenomenon has been referred to by many names, including refractory period, empty mast cell syndrome, tachyphylaxis, and postanaphylaxis mast cell anergy (PAMA). PAMA has been proposed to involve transient depletion of mast cell mediators and diminished mast cell sensitivity

A negative result of specific IgE assay against allergens can be observed if that particular food is avoided for long.

In cases of food allergy, specific IgE antibodies may be undetectable in-spite of a convincing clinical history. This is observed as antibodies formed may be directed towards allergens that are now revealed or altered, due to industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested. Eg- individual allergic to egg but not allergic to cake with egg- eggs are processed in preparing cake causing change of texture and thus allergens might not be recoganised.

If concentration of total IgE in blood serum is higher than 1000 IU/mL,measured concentrations of allergen-specific IgE may be slightly lower than the real values.

Condition Of Reporting

- It is Presumed that specimen belongs to patient named or identified, such verification being carried out at the point of generation of said specimen
- A test might not be performed due to following reason
  - Specimen Quantity not sufficient (Inadequate collection/spillage during transit)
  - Specimen Quality not acceptable (Hemolysis/clotted/lipemic.)
  - Incorrect sample type
  - Test cancelled either on request of patient or doctor

  In any of the above case a fresh specimen will be required for testing and reporting

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Patient Name:	:	**Barcode No**	:
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- The results of the tests may vary from lab to lab ; time to time for the same patient
- The reported results are dependent on individual assay methods, equipment, method sensitivity, specificity and quality of the specimen received
- Partial representation of report is not allowed
- The reported tests are for the notification of the referring doctor, only to assist him/her in the diagnosis and management of the patient
- If Sample collection date is not stated on test requisition form, the current date will be printed by default as the date of collection.
- Report with status “Preliminary” means one or more test are yet to be reported
- This report is not valid for Medico Legal Purpose
- Applicable Jurisdiction will be of “Delhi” for any dispute/claim concerning the test(s) & results of the test (s)

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Nitin

Dr. Nitin Arora
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Terms and Conditions of Reporting

1. The presented findings in the Reports are intended solely for informational and interpretational purposes by the referring physician or other qualified medical professionals possessing a comprehensive understanding of reporting units, reference ranges, and technological limitations. The laboratory shall not be held liable for any interpretation or misinterpretation of the results, nor for any consequential or incidental damages arising from such interpretation.

2. It is to be presumed that the tests performed pertain to the specimen/sample attributed to the Customer's name or identification. It is presumed that the verification particulars have been cleared out by the customer or his/her representation at the point of generation of said specimen / sample. It is hereby clarified that the reports furnished are restricted solely to the given specimen only.

3. It is to be noted that variations in results may occur between different laboratories and over time, even for the same parameter for the same Customer. The assays are performed and conducted in accordance with standard procedures, and the reported outcomes are contingent on the specific individual assay methods and equipment(s) used, as well as the quality of the received specimen.

4. This report shall not be deemed valid or admissible for any medico-legal purposes.

5. The Customers assume full responsibility for apprising the Company of any factors that may impact the test finding. These factors, among others, includes dietary intake, alcohol, or medication / drug(s) consumption, or fasting. This list of factors is only representative and not exhaustive.