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# *New* INSIGHTS



## **Food Intolerance by The Food Xplorer (FOX)**

# Introduction:

The Food Xplorer (FOX) is an in-vitro diagnostic test based on Enzyme-Linked Immunosorbent Assay (ELISA) for the semi quantitative determination of specific immunoglobulin G (IgG).

## Use :

The Food Xplorer (FOX) is a semi-quantitative in vitro diagnostic test for the determination of specific immunoglobulin G (IgG) against 286 food antigens. The Food Xplorer is suitable for use with serum or plasma. FOX can be used to support dietary clarification and to monitor dietary compliance. Furthermore, FOX can be used in case of reasonable suspicion of immunologically caused food intolerance. Before starting a diet based on FOX results, it is important to discuss the results with a physician or a dietician.

## Principle:

FOX is a solid-phase immunoassay test based on Enzyme-Linked Immunosorbent Assay (ELISA). Food extracts, which are coupled to nanoparticles, are deposited in a systematic fashion onto a solid phase forming a macroscopic array. First, the particle bound proteins react with specific IgG that is present in the patient's sample. After incubation, non-specific IgG is washed off. The procedure continues by adding an enzyme labelled anti-human IgG detection antibody which forms a complex with the particle bound specific IgG. After a second washing step, substrate is added which is converted to an insoluble, coloured precipitate by the antibody-bound enzyme. Finally, the enzyme-substrate reaction is stopped by adding a blocking reagent. The amount of precipitate is proportional to the concentration of specific IgG in the patient sample. The lab test procedure is followed by image acquisition and analysis using the ImageXplorer device. The test results are analysed with MADx's RAPTOR SERVER Analysis Software and reported in IgG classes.

# Key Features:

### Antigen Panel Indications\*

- ▶ 287 food antigens from 13 food groups available
- ▶ Staple & novel foods included
- ▶ Cross-reactive carbohydrate determinants include

### Indications

- ▶ Dietary status & Dietary adherence analysis
- ▶ Inflammatory Bowel disease
- ▶ Irritable Bowel Syndrome
- ▶ Depression & Migraine
- ▶ IgG mediated food intolerance

### Technology

- ▶ IgG multiplex (ELISA based) assay
- ▶ Nano-bead technology
- ▶ Detection of IgG antibodies (IgG subclasses 1-4)
- ▶ Semi-quantitative results
- ▶ Design your food antigen panel(s) via multiplex on demand software

# Number Of Tested Food Antigens: 287



## Vegetables

Artichoke, Arugula, Avocado, Bamboo sprouts, Broccoli, Brussels sprouts, Cabbage, Caper, Carrot, Cauliflower, Celery\_Bulb, Celery\_Stalk, Chard, Chicorée, Chinese cabbage, Chives, Cucumber, Eggplant, Endive, Fennel (bulb), Garlic, Green cabbage, Horseradish, Kiwano, Kohlrabi, Lamb's lettuce, Leek, Nettle leaves, Olive, Onion, Parsnip, Pok-Choi, Potato, Pumpkin\_Butternut, Pumpkin\_Hokkaido, Radicchio, Radish, Red beet, Red cabbage, Romanesco, Savoy, Shallot, Spinach, Sweet potato, Tomato, Turnip, Watercress, White Asparagus, White cabbage, Wild garlic, Zucchini



## Fish & Seafood

Abalone, Atlantic cod, Atlantic herring, Atlantic redfish, Carp, Caviar, Cockle, Common mussel, Crab, Eel, European anchovy, European pilchard, European plaice, Gilt-head bream, Haddock, Hake, Lobster, Mackerel, Monkfish, Noble crayfish, Northern pike, Northern prawn, Octopus, Oyster, Razor shell, Salmon, Scallop, Sepia, Shrimp mix, Sole, Squid, Swordfish, Thiorback Ray, Trout, Tuna, Turbot, Venus clam



## Fruits

Apple, Apricot, Banana, Blackberry, Blueberry, Cherry, Cranberry, Date, Elderberry, Fig, Gooseberry, Grape Grapefruit, Kiwi, Lemon, Lime, Lychee, Mango, Melon, Mulberry, Nectarine, Orange, Papaya, Passion fruit, Peach, Pear, Physalis, Pineapple, Plum, Pomegranate, Raisin, Raspberry, Red currant, Strawberry, Tangerine, Watermelon



## Spices

Anise, Basil, Bay leaf, Caraway, Cardamom, Cayenne pepper, Chili (red), Cinnamon, Clove, Coriander, Cumin, Curry, Dill, Fenugreek, Ginger, Juniper berry, Lemongrass, Majoram, Mint, Mustard, Nutmeg, Oregano, Paprika, Parsely, Pepper(black/white/green/red/yellow) Rosemary, Sage, Tarragon Thyme, Turmeric, Vanilla



## Egg & Milk

Buffalo's milk, Buttermilk, Camel's milk, Camembert, Cottage cheese, Cow's milk, Egg white, Egg yolk, Emmental, Goat cheese, Goat's milk, Gouda, Mozzarella, Parmesan, Quail egg, Sheep cheese, Sheep's milk



## Nuts

Almond, Brazil nut, Cashew, Coconut COFFEE & TEA Coconut milk, Hazelnut, Kola nut, Macadamia, Pecan nut, Pine nut, Pistachio, Sweet chestnut, Tigernut, Walnut



## Edible Mushrooms

Boletus, Chanterelle, Enoki, French horn mushroom, Oyster mushroom, White Mushroom



## Legumes

Green bean, Lentil, Mung bean, Pea Peanut, Soy, Sugar pea, Tamarind, White bean



### Cereals & Seeds

Amaranth, Barley, Buckwheat, Chickpea, Corn, Durum, Einkorn, Emmer, Gluten, Hempseed, Linseed, Lupine seed, Malt (barley), Millet, Oat, Polish wheat, Poppy seed, Pumpkin seed, Quinoa, Rapeseed, Rice, Rye, Sesame, Spelt, Sunflower, Wheat, Wheat bran, Wheat gliadin, Wheatgrass



### Novel Foods

Almond milk, Aloe, Aronia, Baobab, Chia seed, Chlorella, Dandelion root, Ginkgo, Ginseng, Greater burdock root, Guarana, House cricket, Maca root, Mealworm, Migratory locust, Nori, Safflower oil, Spirulina, Tapioca, Wakame, Yacón root



### Coffee & Tea

Chamomile, Cocoa, Coffee, Hibiscus Jasmine, Moringa, Peppermint, Tea black, Tea green



### Other

Agar Agar, Aspergillus niger, Baker's yeast, Brewer's yeast, Elderflower Honey, Hops, M-Transglutaminase, meat glue, Cane sugar, Cross-reactive Carbohydrate Determinants



### Meat

Beef, Boar, Chicken, Duck, Goat, Horse, Lamb, Ostrich, Pork, Rabbit Stag, Turkey, Veal, Venison

## Sample Details :



**Sample type:**  
Serum



**Specimen Volume :**  
2 mL



**Transportation Instructions:**  
Refrigerated



**Method :**  
ELISA



**TAT:**  
Daily (cut off time 12 noon, reporting by next day 5 pm) except Sunday



**Price:**  
Rs.15000/-

# Sample Report :



PATIENT ID

RB-FOX

PATIENT NAME



DATE OF BIRTH



SAMPLE ID



BARCODE

80AAH838

ANALYSED ON

6/15/2021

TESTED ANTIGENS

286

TEST METHOD

FOX

APPROVED ON

12/2/2021

NOTE

The internal QC (Plausibility check for GD) was within acceptance range.

## Lab report: Overview of the IgG profile



### Highest measured IgG concentration

0 - 9.99 µg/ml



Low IgG level

10 - 19.99 µg/ml



Intermediate IgG level

≥ 20 µg/ml



Highly elevated IgG level





**Knock out** **medical emergencies,**  
**before it's too late!**

**HEALTH ko aasani se na lo,  
TEST aasani se karo**



**Blood Tests**



**Health Packages**



**ICMR Approved COVID Tests**

**“ Get your blood test done  
Anywhere, Anytime...  
Neuberg hain na ”**

# PARTNERS IN HEALTH



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