Allergic reactions are generally tested in a screen. But for 100% complete full-screen testing, additional testing of histamine-intolerance is inevitable. DAO-REA® is worldwide the first validated DAO activity testing system.

Symptoms of histamine intolerance (HIT) include gastrointestinal symptoms (diarrhea, flatulence, etc.), headache, fatigue, skin irritations (itching, redness, etc.), blocked or running nose after the consumption of food, but without specific IgE-reactions.

Histamine-containing food:
- Alcohol (esp. red wine and champagne)
- Hard and smoked cheese
- Tuna
- Raw meat sausages (e.g. salami and bacon)
- Vegetables (e.g. tomatoes, spinach and egg plant)
- Sauerkraut (pickled sour cabbage)
- Fruits (e.g. strawberry, pineapple and banana)
- Chocolate

Worldwide first DAO-activity test system to support the diagnosis of histamine-intolerance

» Diagnosis

Only 100µl serum or EDTA-plasma is used to determine your patients DAO-activity quick and reliable. The plasma DAO-activity reflects the patient’s Putrescine degrading capacity. The practitioner can tell the patient’s ability to deal with an exposure of biogenic amines from the test result. This data provides important information for the diagnosis.

» Results

The frequency of symptoms and the DAO activity are inversely correlated. This means a significant increase in the incidence of adverse reactions to food according to low DAO activity:

• DAO < 3 U/ml: high incidence of HIT
• 3 U/ml < DAO < 10 U/ml: HIT probable
• DAO > 10 U/ml: low incidence of HIT

» Performance of the test

100µl sample are incubated in an 1,5ml reaction tube for 150min at 37°C with a defined amount of 3H-labeled substrate*. The DAO containing in the sample degrades the Putrescine. As soon as the extraction is completed the organic phase is transferred into a scintillation tube and the remaining Putrescine is quantified with a β-counter.

* The amount of radioactive substance used in the test is below EU permitted limit (Directive 96/29/Euroatom dated 13.05.1996)

For non-obligatory information about the REA launch package please call: T: +43 2272 62777-10 and be the first laboratory to provide full-screen testing in the field of allergy/intolerance.

More than 250,000 kits sold in Europe speak a clear language!