

Name	: Z545	Collected	: 1/9/2017 12:00:00AM
Lab No.	: 135091546	Received	: 1/9/2017 10:39:49AM
Age:	32 Years	Reported	: 1/9/2017 1:47:02PM
Gender:	Female	Report Status	: Final
A/c Status	: P	Ref By	: Dr. UNKNWON

Test Name	Results	Units	Bio. Ref. Interval
ALLERGY, INDIVIDUAL MARKER, BAHIA GRASS (PASPALUM NOTATUM), SERUM (FEIA)	0.39	kUA/L	<0.35

**Interpretation**

QUANTITATIVE RESULT IN kUA/L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low
2.00-15.00	Moderate	Common
15.00-50.00	High	High
50.00-100.00	Very High	Very High
>100.00	Very High	Very High

**Note**

1. Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
2. All results should be interpreted in relation to the individual case history.

**Comments**

Bahia grass is native to Southern Brazil & Uruguay. In India it is seen as turf and forge grass and is used for erosion control.

**Potential cross reactivity**

May be seen with Johnson grass and Maize pollen.

ALLERGY, INDIVIDUAL MARKER, BANANA, SERUM (FEIA)	0.39	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN kUA /L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon



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Test Name	Results	Units	Bio. Ref. Interval
0.50-2.00	Low	Low	
2.00-15.00	Moderate	Common	
15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

1. Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
2. In cases of food allergy, specific IgE antibodies may be undetectable inspite of a convincing clinical history because these antibodies may be directed towards allergens that are revealed or altered during industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested.
3. All results should be interpreted in relation to the individual case history.

**Comments**

Banana fruit originated in South East Asia and is now grown in a variety of tropical regions throughout the world. Allergenicity of banana increases with ripeness. Allergy to banana may lead to local reactions of the oropharyngeal mucosa, gastrointestinal symptoms, wheezing, Urticaria, Angioedema and in severe instances even Anaphylaxis. Banana has also been reported to precipitate migraine in susceptible individuals.

**Potential Cross Reactivity**

Seen with plantain, latex, avocado, chestnut and kiwi.

<b>ALLERGY, INDIVIDUAL MARKER, BEEF, SERUM (FEIA)</b>	<b>3.56</b>	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN KUA/L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low
2.00-15.00	Moderate	Common



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Test Name	Results	Units	Bio. Ref. Interval
15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

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3. All results should be interpreted in relation to the individual case history.

**Comments**

Beef is the meat derived from the bovine family. Domesticated bovine cows seem to have originated from ancient India where they are respected as life giving creatures, hence allergy to beef is not very common here. Beef allergy can be tolerated by patients allergic to cow's milk. The allergenic components are heat labile which explains the differing clinical responses to raw and well cooked beef. Allergic symptoms include eosinophilic gastroenteritis. Immunization programs with bacterial vaccines containing bovine serum albumin can induce beef allergy.

**Potential Cross Reactivity**

Seen with cow dander & cow's milk.

<b>ALLERGY, INDIVIDUAL MARKER, BRINJAL, SERUM (FEIA)</b>	0.35	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN KUA/L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low
2.00-15.00	Moderate	Common



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Test Name	Results	Units	Bio. Ref. Interval
15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

1. Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
2. In cases of food allergy, specific IgE antibodies may be undetectable inspite of a convincing clinical history because these antibodies may be directed towards allergens that are revealed or altered during industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested.
3. All results should be interpreted in relation to the individual case history.

**Comments**

Brinjal / Aubergine / Eggplant is often called “poor man’s meat” as it is rich in nutrients. They contain large quantities of histamine and solanine, hence cannot be eaten raw. An Indian study has revealed an 11% incidence of allergy to eggplant. Sensitized individuals show symptoms of oral allergy syndrome, cough, dysnea and vomiting. A lower incidence of urticaria and anaphylaxis has also been reported. Immediate IgE mediated hypersensitivity reactions have been noted in response to allergy to brinjal pollen.

**Potential Cross Reactivity**

Seen with tomato, potato & green pepper.

ALLERGY, INDIVIDUAL MARKER, BUCKWHEAT, SERUM (FEIA)	0.34	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN KUA /L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low
2.00-15.00	Moderate	Common
15.00-50.00	High	High



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Test Name	Results	Units	Bio. Ref. Interval
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

1. Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
2. In cases of food allergy, specific IgE antibodies may be undetectable inspite of a convincing clinical history because these antibodies may be directed towards allergens that are revealed or altered during industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested.
3. All results should be interpreted in relation to the individual case history.

**Comments**

Buckwheat (Kuttu Ka atta) is consumed mainly in Asian countries as a substitute for wheat and other grains specially as an alternative to people who are allergic to wheat. It is also used as a substitute cereal for children with Celiac disease. Buckwheat is rich in fibre, minerals, vitamins and essential amino acids specially lysine. It is a very potent allergen causing both food and inhalant allergy. The allergic symptoms include gastrointestinal distress, urticaria, angioedema, dysnea, wheezing, rhinitis, asthma, anaphylaxis and shock. Inhalation of very small amounts of buckwheat allergen can initiate very severe allergic reaction. Occupational allergy has been reported in individuals involved with grinding and packaging of buckwheat.

**Potential Cross Reactivity**

Seen with different species of the same genus, natural rubber latex and rice.

ALLERGY, INDIVIDUAL MARKER, EGG WHITE, SERUM (FEIA)	0.29	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN kUA /L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low



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Test Name	Results	Units	Bio. Ref. Interval
2.00-15.00	Moderate	Common	
15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

- Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
- In cases of food allergy, specific IgE antibodies may be undetectable inspite of a convincing clinical history because these antibodies may be directed towards allergens that are revealed or altered during industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested.
- All results should be interpreted in relation to the individual case history.

**Comments**

Egg specific IgE antibodies are usually the earliest antibodies appearing in children developing atopic disease. Allergy to egg white is one of the most common cause of allergy in infants and young children. 65% of the children exhibiting eczema and respiratory tract symptoms are found to have egg white allergy. It is often responsible for the development of urticaria and eczema during infancy. This test can be used as an effective predictor of atopy as infants presenting with egg white allergy are more likely to develop inhalant allergy by 7 years of age.

<b>ALLERGY, INDIVIDUAL MARKER, EGG YOLK, SERUM (FEIA)</b>	<b>0.50</b>	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN KUA/L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely
0.10-0.50	Very low	Uncommon
0.50-2.00	Low	Low
2.00-15.00	Moderate	Common
15.00-50.00	High	High



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Test Name	Results	Units	Bio. Ref. Interval
50.00-100.00	Very High	Very High	
>100.00	Very High	Very High	

**Note**

1. Sensitized patients show elevated levels of specific allergens. Generally the higher the kUA/L value, the more exposed the patient is to the allergen.
2. In cases of food allergy, specific IgE antibodies may be undetectable inspite of a convincing clinical history because these antibodies may be directed towards allergens that are revealed or altered during industrial food processing, cooking or digestion and therefore do not exist in the original food for which the patient is tested.
3. All results should be interpreted in relation to the individual case history.

**Comments**

Egg specific IgE antibodies are usually the earliest antibodies appearing in children developing atopic disease. Allergy to egg yolk is one of the most common causes of food allergy in infants and young children and about 65% children with eczema and respiratory tract symptoms show IgE antibodies to egg yolk. Egg intolerance in adults is commonly due to the yolk.

Egg yolk contains allergens other than the major allergens found in egg white. Allergic reactions to egg yolk are predominantly IgE mediated characterized by Atopic dermatitis, Urticaria, Angioedema, vomiting, diarrhea, Rhinoconjunctivitis and Asthma. 93% of sensitized individuals show immediate symptoms upon exposure.

**Potential Cross Reactivity**

Seen with Egg white & chicken.

<b>ALLERGY, INDIVIDUAL MARKER, MILK, SERUM (FEIA)</b>	0.29	kUA/L	<0.35
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**Interpretation**

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0.10-0.50	Very low	Uncommon
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Test Name	Results	Units	Bio. Ref. Interval
15.00-50.00	High	High	
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**Comments**

Cow's milk is a major cause of adverse reactions in infants. Cow's milk induced Asthma is noted in 7-29% of infants with food hypersensitivity. It often leads to Rhinoconjunctivitis in young children. Milk allergy in infants has a much better prognosis than in older children or adults. Milk allergy usually causes gastrointestinal and dermatological symptoms. Usually the respiratory and gastrointestinal symptoms increase with age while cutaneous symptoms decrease with age. In adults milk allergy affects mainly women leading to allergic manifestations involving respiratory tract and skin. Inhaled milk proteins may cause occupational asthma in workers handling powdered milk or in people milking animals. Boiling is known to reduce the allergenicity of milk proteins in comparison to pasteurization.

**Potential Cross Reactivity**

Seen between cow's milk and milk from related animals. Common allergens have been demonstrated in milk, meat and dander.

<b>ALLERGY, INDIVIDUAL MARKER, WHITE BEAN, SERUM (FEIA)</b>	0.01	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN kUA /L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
<0.10	Undetectable	Unlikely



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0.50-2.00	Low	Low	
2.00-15.00	Moderate	Common	
15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
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- All results should be interpreted in relation to the individual case history.

**Comments**

White bean is the term given to varieties of beans that have light colored seeds. They are traditionally eaten alone without the pods and usually available as canned, dried, frozen or baked with sauces. White beans are an excellent source of iron, folate, magnesium, phosphorus, potassium and copper. They uncommonly induce symptoms of food allergy in sensitized individuals leading to wheezing, erythema, urticaria, abdominal pain and light headedness.

**Potential Cross Reactivity**

Seen with peanut, garden pea, chick pea and soybean.

White Pine (FEIA)	2.00	kUA/L	<0.35
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**Interpretation**

QUANTITATIVE RESULT IN kUA /L	LEVEL OF ALLERGEN SPECIFIC ANTIBODY	SYMPTOM RELATION
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0.50-2.00	Low	Low	
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15.00-50.00	High	High	
50.00-100.00	Very High	Very High	
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**Note**

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2. All results should be interpreted in relation to the individual case history.

**Comments**

White Pine (Pinus strobus) is a tall coniferous tree often planted for timber in early summer. It is wind pollinated, spreading the tree pollen over large areas leading to atopic reactions in sensitized individuals. Hypersensitivity to white pine usually manifests as Allergic Rhinitis, Asthma and Allergic conjunctivitis. White Pine saw dust leads to allergic contact dermatitis in workers processing pine in saw mills.

**Potential Cross Reactivity**

Seen with Pine tree ( P.radiata), Olive, Birch, Mugwort and Cypress.



Dr. Anil Arora  
 MD (Pathology)  
 HOD Hemat & Imm



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 MD (Pathology)  
 Sr. Consultant Pathologist

-----End of report -----

