

SAMPLE INFORMATION

Sample ID: **AB31527_3:38 PM_4**
 Sampling date: 20.03.2013
 Approval status: Measured
 Print date: 20.03.2013
 Calibration curve: CTR02 2/20/2013
 A9T0927_1:21 PM_4

PATIENT INFORMATION




Patient ID: **2761**
 Name:
 Birth date: Age: 5
 ID/MR#: Gender: M

ORDERING PHYSICIAN INFORMATION

Ordering physician:





1. Summary of positive IgE results

Mainly species-specific food components

Cow's milk-حليب البقر	nBos d 4	Alpha-lactalbumin	1,8 ISU-E	
	nBos d 5	Beta-lactoglobulin	1,3 ISU-E	
	nBos d 8	Casein	0,4 ISU-E	




Cross-reactive components

Serum albumin

Cow's milk/meat-حليب/لحم البقر	nBos d 6	Serum albumin	6,5 ISU-E	
Dog-الكلب	nCan f 3	Serum albumin	1,3 ISU-E	
Horse-الحصان	nEqu c 3	Serum albumin	0,8 ISU-E	
Cat-القطه	nFel d 2	Serum albumin	2,8 ISU-E	

ISAC Standardized Units (ISU-E)

Level

< 0.3	Undetectable	
0.3 - 0.9	Low	
1 - 14.9	Moderate / High	
≥ 15	Very High	

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2. IgE results sorted by protein group

Mainly species-specific food components

Food Component	Antibody	Protein	Result	Color
Egg white-بياض البيض	nGal d 1	Ovomucoid	<0,3 ISU-E	
	nGal d 2	Ovalbumin	<0,3 ISU-E	
	nGal d 3	Conalbumin/Ovotransferrin	<0,3 ISU-E	
Egg yolk/chicken meat-صفار البيض/لحم الدجاج	nGal d 5	Livetin/Serum albumin	<0,3 ISU-E	
Cow's milk-حليب البقر	nBos d 4	Alpha-lactalbumin	1,8 ISU-E	Orange
	nBos d 5	Beta-lactoglobulin	1,3 ISU-E	Orange
	nBos d 8	Casein	0,4 ISU-E	Yellow
	nBos d lactoferrin	Transferrin	<0,3 ISU-E	
Cod-سمك القد	rGad c 1	Parvalbumin	<0,3 ISU-E	
Shrimp-القرديس	nPen m 2	Arginine kinase	<0,3 ISU-E	
	nPen m 4	Sarcoplasmic calcium binding protein	<0,3 ISU-E	
Cashew nut-الكاشو	rAna o 2	Storage protein, 11S globulin	<0,3 ISU-E	
Brazil nut-جوزة الامازون	rBer e 1	Storage protein, 2S albumin	<0,3 ISU-E	
Hazelnut-البندق	nCor a 9	Storage protein, 11S globulin	<0,3 ISU-E	
Walnut-الجوز	nJug r 1	Storage protein, 2S albumin	<0,3 ISU-E	
	nJug r 2	Storage protein, 7S globulin	<0,3 ISU-E	
Sesame seed-السمسم	nSes i 1	Storage protein, 2S albumin	<0,3 ISU-E	
Peanut-الفسق السوداني	rAra h 1	Storage protein, 7S globulin	<0,3 ISU-E	
	rAra h 2	Storage protein, Conglutin	<0,3 ISU-E	
	rAra h 3	Storage protein, 11S globulin	<0,3 ISU-E	
	nAra h 6	Storage protein, 2S albumin	<0,3 ISU-E	
Soybean-فول الصويا	nGly m 5	Storage protein, Beta-conglycinin	<0,3 ISU-E	
	nGly m 6	Storage protein, Glycinin	<0,3 ISU-E	
Buckwheat-الحنطة السوداء	nFag e 2	Storage protein, 2S albumin	<0,3 ISU-E	
Wheat-القمح	rTri a 14	Lipid transfer protein (nsLTP)	<0,3 ISU-E	
	rTri a 19.0101	Omega-5 gliadin	<0,3 ISU-E	
	nTri a aA_TI	Alpha-amylase / Trypsin inhibitor	<0,3 ISU-E	
Kiwi-فاكهة الكيوي	nAct d 1	Cysteine protease	<0,3 ISU-E	
	nAct d 5	Kiwellin	<0,3 ISU-E	

Parvalbumins are major allergens in fish and markers for cross-reactivity among different species of fish.

Mainly species-specific aeroallergen components

Grass pollen

Bermuda grass-عشبة الانجيل	nCyn d 1	Grass group 1	<0,3 ISU-E
Timothy grass-عصوية المروج	rPhl p 1	Grass group 1	<0,3 ISU-E
	rPhl p 2	Grass group 2	<0,3 ISU-E
	nPhl p 4	Berberine bridge enzyme	<0,3 ISU-E
	rPhl p 5	Grass group 5	<0,3 ISU-E
	rPhl p 6	Grass group 6	<0,3 ISU-E
	rPhl p 11	Ole e 1-related protein	<0,3 ISU-E

Tree pollen

Birch-شجرة القضبان	rBet v 1	PR-10 protein	<0,3 ISU-E
Japanese cedar-الأرز الياباني	nCry j 1	Pectate lyase	<0,3 ISU-E
Cypress-شجرة الثرو	nCup a 1	Pectate lyase	<0,3 ISU-E
Olive pollen-شجرة الزيتون	nOle e 1	Common olive group 5	<0,3 ISU-E
	rOle e 9	Beta-1,3-glucanase	<0,3 ISU-E
Plane tree-شجرة الدلب	rPla a 1	Putative invertase inhibitor	<0,3 ISU-E
	nPla a 2	Polygalacturonase	<0,3 ISU-E

Ole e 1 is also a marker for ash sensitization.

Weed pollen

Ragweed-عشبة الرجيد	nAmb a 1	Pectate lyase	<0,3 ISU-E
Mugwort-الشيح	nArt v 1	Defensin	<0,3 ISU-E
Goosefoot-الزربيع/الرمرام	rChe a 1	Ole e 1-related protein	<0,3 ISU-E
Wall pelitory-عشبة القزاز	rPar j 2	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Plantain-موز الجنة/نبات لسان الحمل	rPla l 1	Ole e 1-related protein	<0,3 ISU-E
Saltwort-الحرص الشانك	nSal k 1	Pectin methylesterase	<0,3 ISU-E

Animal

Dog-الكلب	rCan f 1	Lipocalin	<0,3 ISU-E
	rCan f 2	Lipocalin	<0,3 ISU-E
	rCan f 5	Arginine Esterase	<0,3 ISU-E
Horse-الحصان	rEqu c 1	Lipocalin	<0,3 ISU-E
Cat-القطعة	rFel d 1	Uteroglobin	<0,3 ISU-E
	rFel d 4	Lipocalin	<0,3 ISU-E
Mouse-الفأرة	nMus m 1	Lipocalin	<0,3 ISU-E

Mold

Alternaria-أترناريا	rAlt a 1	Acidic glycoprotein	<0,3 ISU-E
	rAlt a 6	Enolase	<0,3 ISU-E
Aspergillus-فطر الاسبرجيل	rAsp f 1	Mitogillin family	<0,3 ISU-E
	rAsp f 3	Peroxisomal protein	<0,3 ISU-E
	rAsp f 6	Mn superoxide dismutase	<0,3 ISU-E
Cladosporium-العفن	rCla h 8	Mannitol dehydrogenase	<0,3 ISU-E

Mite

B. tropicalis (HDM)-عثة الغبار	rBlo t 5	Mite group 5	<0,3 ISU-E
D. farinae (HDM)-عثة الغبار	nDer f 1	Cysteine protease	<0,3 ISU-E
	rDer f 2	NPC2 family	<0,3 ISU-E
D. pteronyssinus (HDM)-عثة الغبار	nDer p 1	Cysteine protease	<0,3 ISU-E
	rDer p 2	NPC2 family	<0,3 ISU-E
L. destructor (storage mite)- عثة الغبار	rLep d 2	NPC2 family	<0,3 ISU-E

Cockroach

Cockroach-الصرصار الالمانى	rBla g 1	Cockroach group 1	<0,3 ISU-E
	rBla g 2	Aspartic protease	<0,3 ISU-E
	rBla g 5	Glutathione S-transferase	<0,3 ISU-E

Other mainly species-specific components

Venom

Honey bee venom-سم النحل	rApi m 1	Phospholipase A2	<0,3 ISU-E
	nApi m 4	Melittin	<0,3 ISU-E
Paper wasp-عقصة الدبور	rPol d 5	Antigen 5	<0,3 ISU-E
Common wasp-عقصة الدبور	rVes v 5	Antigen 5	<0,3 ISU-E

ImmunoCAP ISAC should not be used to confirm suspicion of venom allergy. Instead ImmunoCAP sIgE components or complete allergens should be used. When ImmunoCAP ISAC reveals IgE abs to venoms further testing for venom allergy is recommended. The venom components on ImmunoCAP ISAC are CCD free.

Parasite

Anisakis-نيماتود بحري	rAni s 1	Serine protease inhibitor	<0,3 ISU-E
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Latex

Latex-اللاتكس	rHev b 1	Rubber elongation factor	<0,3 ISU-E
	rHev b 3	Small rubber particle protein	<0,3 ISU-E
	rHev b 5	Acidic protein	<0,3 ISU-E
	rHev b 6.01	Prohevein	<0,3 ISU-E

Cross-reactive components

Serum albumin

Cow's milk/meat-حليب/لحم البقر	nBos d 6	Serum albumin	6,5 ISU-E	
Dog-الكلب	nCan f 3	Serum albumin	1,3 ISU-E	
Horse-الحصان	nEqu c 3	Serum albumin	0,8 ISU-E	
Cat-القطعة	nFel d 2	Serum albumin	2,8 ISU-E	

An abundant protein present in different animal tissues, e.g blood, milk, meat (e.g. beef) and egg. Cross-reactions between albumins from different animal species are well known, for example between cat and dog or cat and pork.

Tropomyosin

Anisakis-نيماتود بحري	rAni s 3	Tropomyosin	<0,3 ISU-E
Cockroach-الصرصار الالمانى	nBla g 7	Tropomyosin	<0,3 ISU-E
D. pteronyssinus (HDM)-عثة الغبار	rDer p 10	Tropomyosin	<0,3 ISU-E
Shrimp-القرديس	nPen m 1	Tropomyosin	<0,3 ISU-E

An actin-binding protein in muscle fibers. A marker for cross-reactivity between crustaceans, mites and cockroaches.

Lipid transfer protein (nsLTP)

Peanut-الفسنق السوداني	rAra h 9	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Hazelnut-البندق	rCor a 8	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Walnut-الجوز	nJug r 3	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Peach-الدراق	rPru p 3	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Mugwort-الشيح	nArt v 3	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Olive pollen-شجرة الزيتون	nOle e 7	Lipid transfer protein (nsLTP)	<0,3 ISU-E
Plane tree-شجرة الدلب	rPla a 3	Lipid transfer protein (nsLTP)	<0,3 ISU-E

Sensitization to LTPs is often associated with allergic reactions to fruit and vegetables in regions where peaches and closely related fruits are cultivated and is often associated with systemic and more severe reactions in addition to OAS. LTP proteins are stable to heat and digestion causing reactions also to cooked foods.

PR-10 protein

Birch-شجرة القضبان	rBet v 1	PR-10 protein	<0,3 ISU-E
Alder-شجرة النغت	rAln g 1	PR-10 protein	<0,3 ISU-E
Hazel pollen-شجرة البندق	rCor a 1.0101	PR-10 protein	<0,3 ISU-E
Hazelnut-البندق	rCor a 1.0401	PR-10 protein	<0,3 ISU-E
Apple-التفاح	rMal d 1	PR-10 protein	<0,3 ISU-E
Peach-الدراق	rPru p 1	PR-10 protein	<0,3 ISU-E
Soybean-فول الصويا	rGly m 4	PR-10 protein	<0,3 ISU-E
Peanut-الفسنق السوداني	rAra h 8	PR-10 protein	<0,3 ISU-E

Cross-reactive components

PR-10 protein

Kiwi-فاكهة الكيوي-الكيوي	rAct d 8	PR-10 protein	<0,3 ISU-E
Celery-الكرفس	rApi g 1	PR-10 protein	<0,3 ISU-E

Birch or related Fagales tree pollens are often the primary sensitizer to PR-10 proteins in areas with high exposure to these pollens. The presence of PR-10 proteins in many plant foods can cause allergic reactions to fruits, nuts and vegetables due to cross-reactivity, and is often associated with local symptoms such as oral allergy syndrom (OAS). Many of these proteins are heat labile and cooked foods are often tolerated.

Thaumatine-like protein

Kiwi-فاكهة الكيوي	nAct d 2	Thaumatins-like protein	<0,3 ISU-E
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Act d 2 may give rise to cross-reactivity with other thaumatin-like proteins. Thaumatin-like proteins have been found in pollen, fruits (e.g. apple and grape), fungi (Alternaria), mites and insects.

Profilin

Birch-شجرة القصبان	rBet v 2	Profilin	<0,3 ISU-E
Latex-اللاتكس	rHev b 8	Profilin	<0,3 ISU-E
Annual mercury-الحريق الأملس	rMer a 1	Profilin	<0,3 ISU-E
Timothy grass-عصوية المروج	rPhl p 12	Profilin	<0,3 ISU-E

Profilins show great homology and cross-reactivity even between distantly related plant species. Seldom associated with clinical symptoms but may cause demonstrable or even severe reactions in a minority of patients allergic to e.g. citrus fruits, melon, banana, litchi and tomato.

CCD

CCD-	nMUXF3	CCD	<0,3 ISU-E
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Cross-reactive Carbohydrate Determinants (CCD) are rarely associated with allergic reactions, but may produce positive in-vitro test results to CCD-containing allergens from pollen, plant food, insects and venoms.

Polcalcin (Calcium binding 2-EF-hand protein)

Birch-شجرة القصبان	rBet v 4	Polcalcin	<0,3 ISU-E
Timothy grass-عصوية المروج	rPhl p 7	Polcalcin	<0,3 ISU-E

Markers for cross-reactivity between pollen.

ISAC Standardized Units (ISU-E)

< 0.3	Undetectable
0.3 - 0.9	Low
1 - 14.9	Moderate / High
≥ 15	Very High

