

SAMPLE INFORMATION

Sample ID: **06 3698 9089**
 Sampling date: 31.05.2016
 Approval status: Measured
 Print date: 31.05.2016
 Calibration curve: CTR03 29.04.2016
 BBH4527_1

PATIENT INFORMATION

Patient ID: **06 3698 9089**
 Name: **ST11275775**
 Birth date: 22.04.2006 Age: 10
 ID/MR#: Gender:

ORDERING PHYSICIAN INFORMATION

Ordering physician:
 Address: synlab MVZ Leinfelden GmbH
 Dr. Y. Ziemendorff
 Max-Lang-Str. 58
 70771 Leinfelden

1. Summary of positive IgE results

Mainly species-specific food components

Walnut	rJug r 1	Storage protein, 2S albumin	6,2 ISU-E	
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Mainly species-specific aeroallergen components

Grass pollen				
Timothy grass	rPhl p 5	Grass group 5	17 ISU-E	
	rPhl p 6	Grass group 6	7,3 ISU-E	
Tree pollen				
Birch	rBet v 1	PR-10 protein	36 ISU-E	
Animal				
Dog	rCan f 5	Arginine Esterase	14 ISU-E	

Cross-reactive components

PR-10 protein				
Birch	rBet v 1	PR-10 protein	36 ISU-E	
Alder	rAln g 1	PR-10 protein	21 ISU-E	
Hazel pollen	rCor a 1.0101	PR-10 protein	6,7 ISU-E	
Hazelnut	rCor a 1.0401	PR-10 protein	33 ISU-E	
Apple	rMal d 1	PR-10 protein	32 ISU-E	
Peach	rPru p 1	PR-10 protein	12 ISU-E	
Peanut	rAra h 8	PR-10 protein	14 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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ISAC Xplain

NON-VALIDATED COMMENTS

SUMMARY COMMENTS

This patient is multi-sensitized with IgE to both species-specific and cross-reactive components. IgE to walnut Jug r 1 is associated with risk of systemic allergic reactions. In general, the higher the IgE level the greater the likelihood of allergic symptoms.

FOOD COMPONENTS (mainly species-specific)

IgE to walnut detected.

NUTS & LEGUMES: IgE to the storage proteins walnut Jug r 1 is associated with risk of systemic allergic reactions. Many storage proteins are heat and digestion stable and associated with allergic reactions both to cooked and uncooked food. Walnut and pecan are closely related.

AEROALLERGEN COMPONENTS (mainly species-specific)

IgE to birch, grass pollen and dog detected (listed in descending IgE concentration).

POLLEN: IgE to timothy components may cross-react with similar proteins in other grasses. IgE to birch Bet v 1 may cross-react with pollen of related trees and plant foods containing PR-10 proteins (e.g. Rosaceae fruits, peanut, soy, hazelnut, carrot, kiwi or celery).

ANIMALS: IgE to dog Can f 5 is specific for dog. Can f 5 is a prostate-derived allergen produced by male dogs.

FOOD-INHALATION CROSS-REACTIVE COMPONENTS

PR10: IgE to birch Bet v 1, hazelnut Cor a 1.04, apple Mal d 1, alder Aln g 1, peanut Ara h 8, peach Pru p 1 and hazel pollen Cor a 1.01 (probably originating from birch pollen sensitization) is associated with local allergic reactions (typically OAS) in patients with pollen-food-syndrome caused by PR-10 containing food. Most PR-10 proteins are sensitive to heat and digestion and cooked food is often tolerated, however, some PR-10 proteins are more stable (e.g. celery Api g 1). IgE to Peanut Ara h 8 is mainly associated with local reactions to peanut.

Disclaimer

Presence of IgE implies a risk of allergic disease and its significance must be evaluated within the clinical context. Absence of IgE does not necessarily exclude the potential for an allergy-like reaction. The result comments are intended as an aid in the interpretation of test results and do not constitute medical advice. No liability is accepted with their use. The comments generated herein are copyright protected and may only be used together with ImmunoCAP ISAC® results.

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2. IgE results sorted by protein group

Mainly species-specific food components

Egg white	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	nGal d 5	Livetin/Serum albumin	<0.3 ISU-E
Cow's milk	nBos d 4	Alpha-lactalbumin	<0.3 ISU-E
	nBos d 5	Beta-lactoglobulin	<0.3 ISU-E
	nBos d 8	Casein	<0.3 ISU-E
	nBos d lactoferrin	Transferrin	<0.3 ISU-E
Cod	rGad c 1	Parvalbumin	<0.3 ISU-E
Shrimp	nPen m 2	Arginine kinase	<0.3 ISU-E
	nPen m 4	Sarcoplasmic calcium binding protein	<0.3 ISU-E
Cashew nut	rAna o 2	Storage protein, 11S globulin	<0.3 ISU-E
Brazil nut	rBer e 1	Storage protein, 2S albumin	<0.3 ISU-E
Hazelnut	nCor a 9	Storage protein, 11S globulin	<0.3 ISU-E
Walnut	rJug r 1	Storage protein, 2S albumin	6,2 ISU-E
	nJug r 2	Storage protein, 7S globulin	<0.3 ISU-E
Sesame seed	nSes i 1	Storage protein, 2S albumin	<0.3 ISU-E
Peanut	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	nGly m 5	Storage protein, Beta-conglycinin	<0.3 ISU-E
	nGly m 6	Storage protein, Glycinin	<0.3 ISU-E
Buckwheat	nFag e 2	Storage protein, 2S albumin	<0.3 ISU-E
Wheat	rTri a 19.0101	Omega-5 gliadin	<0.3 ISU-E
	nTri a aA_TI	Alpha-amylase / Trypsin inhibitor	<0.3 ISU-E
Kiwi	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	nCyn d 1	Grass group 1	<0.3 ISU-E	
Timothy grass	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	17 ISU-E	
	rPhl p 6	Grass group 6	7,3 ISU-E	
	rPhl p 11	Ole e 1-related protein	<0.3 ISU-E	

Tree pollen


Birch	rBet v 1	PR-10 protein	36 ISU-E	
Japanese cedar	nCry j 1	Pectate lyase	<0.3 ISU-E	
Cypress	nCup a 1	Pectate lyase	<0.3 ISU-E	
Olive pollen	rOle e 1	Common olive group 5	<0.3 ISU-E	
	rOle e 9	Beta-1,3-glucanase	<0.3 ISU-E	
Plane tree	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	nAmb a 1	Pectate lyase	<0.3 ISU-E	
Mugwort	nArt v 1	Defensin	<0.3 ISU-E	
Goosefoot	rChe a 1	Ole e 1-related protein	<0.3 ISU-E	
Wall pelitory	rPar j 2	Lipid transfer protein (nsLTP)	<0.3 ISU-E	
Plantain	rPla l 1	Ole e 1-related protein	<0.3 ISU-E	
Saltwort	nSal k 1	Pectin methylesterase	<0.3 ISU-E	

Animal

Dog	rCan f 1	Lipocalin	<0.3 ISU-E	
	rCan f 2	Lipocalin	<0.3 ISU-E	
	rCan f 5	Arginine Esterase	14 ISU-E	
Horse	rEqu c 1	Lipocalin	<0.3 ISU-E	
Cat	rFel d 1	Uteroglobin	<0.3 ISU-E	
	rFel d 4	Lipocalin	<0.3 ISU-E	
Mouse	nMus m 1	Lipocalin	<0.3 ISU-E	

Mold

Alternaria	rAlt a 1	Acidic glycoprotein	<0.3 ISU-E	
	rAlt a 6	Enolase	<0.3 ISU-E	
Aspergillus	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	rCla h 8	Mannitol dehydrogenase	<0.3 ISU-E	

Mite

B. tropicalis (HDM)	rBlo t 5	Mite group 5	<0.3 ISU-E	
D. farinae (HDM)	nDer f 1	Cysteine protease	<0.3 ISU-E	
	rDer f 2	NPC2 family	<0.3 ISU-E	
D. pteronyssinus (HDM)	nDer p 1	Cysteine protease	<0.3 ISU-E	
	rDer p 2	NPC2 family	<0.3 ISU-E	
L. destructor (storage mite)	rLep d 2	NPC2 family	<0.3 ISU-E	

Cockroach

Cockroach	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	rApi m 1	Phospholipase A2	<0.3 ISU-E
	nApi m 4	Melittin	<0.3 ISU-E
Paper wasp	rPol d 5	Antigen 5	<0.3 ISU-E
Common wasp	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	rAni s 1	Serine protease inhibitor	<0.3 ISU-E
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Latex

Latex	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	nBos d 6	Serum albumin	<0.3 ISU-E
Dog	nCan f 3	Serum albumin	<0.3 ISU-E
Horse	nEqu c 3	Serum albumin	<0.3 ISU-E
Cat	nFel d 2	Serum albumin	<0.3 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	rAni s 3	Tropomyosin	<0.3 ISU-E
Cockroach	nBla g 7	Tropomyosin	<0.3 ISU-E
D. pteronyssinus (HDM)	rDer p 10	Tropomyosin	<0.3 ISU-E
Shrimp	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	rAra h 9	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Hazelnut	rCor a 8	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Walnut	nJug r 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Peach	rPru p 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Wheat	rTri a 14	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Mugwort	nArt v 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Olive pollen	nOle e 7	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Plane tree	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	rBet v 1	PR-10 protein	36 ISU-E	
Alder	rAln g 1	PR-10 protein	21 ISU-E	
Hazel pollen	rCor a 1.0101	PR-10 protein	6,7 ISU-E	
Hazelnut	rCor a 1.0401	PR-10 protein	33 ISU-E	
Apple	rMal d 1	PR-10 protein	32 ISU-E	

Cross-reactive components

PR-10 protein

Peach	rPru p 1	PR-10 protein	12 ISU-E	
Soybean	rGly m 4	PR-10 protein	<0.3 ISU-E	
Peanut	rAra h 8	PR-10 protein	14 ISU-E	
Kiwi	rAct d 8	PR-10 protein	<0.3 ISU-E	
Celery	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	nAct d 2	Thaumatococcus protein	<0.3 ISU-E
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Act d 2 may give rise to cross-reactivity with other thaumatococcus-like proteins. Thaumatococcus-like proteins have been found in pollen, fruits (e.g. apple and grape), fungi (Alternaria), mites and insects.

Profilin

Birch	rBet v 2	Profilin	<0.3 ISU-E
Latex	rHev b 8	Profilin	<0.3 ISU-E
Annual mercury	rMer a 1	Profilin	<0.3 ISU-E
Timothy grass	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.

Polcalcic (Calcium binding 2-EF-hand protein)

Birch	rBet v 4	Polcalcic	<0.3 ISU-E
Timothy grass	rPhl p 7	Polcalcic	<0.3 ISU-E

Markers for cross-reactivity between pollen.

ISAC Standardized Units (ISU-E)

< 0.3
0.3 - 0.9
1 - 14.9
≥ 15

Level

Undetectable
Low
Moderate / High
Very High



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Address:	synlab MVZ Leinfelden GmbH Dr. Y. Ziemendorff Max-Lang-Str. 58 70771 Leinfelden

3. IgE results sorted by allergen source

Food allergens

Egg white	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	nGal d 5	Livetin/Serum albumin	<0.3 ISU-E	
Cow's milk	nBos d 4	Alpha-lactalbumin	<0.3 ISU-E	
	nBos d 5	Beta-lactoglobulin	<0.3 ISU-E	
Cow's milk/meat	nBos d 6	Serum albumin	<0.3 ISU-E	
Cow's milk	nBos d 8	Casein	<0.3 ISU-E	
	nBos d lactoferrin	Transferrin	<0.3 ISU-E	
Cod	rGad c 1	Parvalbumin	<0.3 ISU-E	
Shrimp	nPen m 1	Tropomyosin	<0.3 ISU-E	
	nPen m 2	Arginine kinase	<0.3 ISU-E	
	nPen m 4	Sarcoplasmic calcium binding protein	<0.3 ISU-E	
Cashew nut	rAna o 2	Storage protein, 11S globulin	<0.3 ISU-E	
Brazil nut	rBer e 1	Storage protein, 2S albumin	<0.3 ISU-E	
Hazelnut	rCor a 1.0401	PR-10 protein	33 ISU-E	
	rCor a 8	Lipid transfer protein (nsLTP)	<0.3 ISU-E	
	nCor a 9	Storage protein, 11S globulin	<0.3 ISU-E	
Walnut	rJug r 1	Storage protein, 2S albumin	6,2 ISU-E	
	nJug r 2	Storage protein, 7S globulin	<0.3 ISU-E	
	nJug r 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E	
Sesame seed	nSes i 1	Storage protein, 2S albumin	<0.3 ISU-E	
Peanut	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	
	rAra h 8	PR-10 protein	14 ISU-E	
	rAra h 9	Lipid transfer protein (nsLTP)	<0.3 ISU-E	
Soybean	rGly m 4	PR-10 protein	<0.3 ISU-E	
	nGly m 5	Storage protein, Beta-conglycinin	<0.3 ISU-E	

Food allergens

Soybean	nGly m 6	Storage protein, Glycinin	<0.3 ISU-E
Buckwheat	nFag e 2	Storage protein, 2S albumin	<0.3 ISU-E
Wheat	rTri a 14	Lipid transfer protein (nsLTP)	<0.3 ISU-E
	rTri a 19.0101	Omega-5 gliadin	<0.3 ISU-E
Kiwi	nTri a aA_TI	Alpha-amylase / Trypsin inhibitor	<0.3 ISU-E
	nAct d 1	Cysteine protease	<0.3 ISU-E
	nAct d 2	Thaumatococcus-like protein	<0.3 ISU-E
	nAct d 5	Kiwellin	<0.3 ISU-E
Apple	rAct d 8	PR-10 protein	<0.3 ISU-E
	rMal d 1	PR-10 protein	32 ISU-E
Peach	rPru p 1	PR-10 protein	12 ISU-E
	rPru p 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Celery	rApi g 1	PR-10 protein	<0.3 ISU-E

Aeroallergens

Bermuda grass	nCyn d 1	Grass group 1	<0.3 ISU-E
Timothy grass	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	17 ISU-E
	rPhl p 6	Grass group 6	7,3 ISU-E
	rPhl p 7	Polcalcin	<0.3 ISU-E
	rPhl p 11	Ole e 1-related protein	<0.3 ISU-E
	rPhl p 12	Profilin	<0.3 ISU-E
Alder	rAln g 1	PR-10 protein	21 ISU-E
Birch	rBet v 1	PR-10 protein	36 ISU-E
	rBet v 2	Profilin	<0.3 ISU-E
	rBet v 4	Polcalcin	<0.3 ISU-E
Hazel pollen	rCor a 1.0101	PR-10 protein	6,7 ISU-E
Japanese cedar	nCry j 1	Pectate lyase	<0.3 ISU-E
Cypress	nCup a 1	Pectate lyase	<0.3 ISU-E
Olive pollen	rOle e 1	Common olive group 5	<0.3 ISU-E
	nOle e 7	Lipid transfer protein (nsLTP)	<0.3 ISU-E
	rOle e 9	Beta-1,3-glucanase	<0.3 ISU-E
Plane tree	rPla a 1	Putative invertase inhibitor	<0.3 ISU-E
	nPla a 2	Polygalacturonase	<0.3 ISU-E
	rPla a 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Ragweed	nAmb a 1	Pectate lyase	<0.3 ISU-E
Mugwort	nArt v 1	Defensin	<0.3 ISU-E
	nArt v 3	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Goosefoot	rChe a 1	Ole e 1-related protein	<0.3 ISU-E
Annual mercury	rMer a 1	Profilin	<0.3 ISU-E
Wall pelitory	rPar j 2	Lipid transfer protein (nsLTP)	<0.3 ISU-E
Plantain	rPla l 1	Ole e 1-related protein	<0.3 ISU-E
Saltwort	nSal k 1	Pectin methylesterase	<0.3 ISU-E
Dog	rCan f 1	Lipocalin	<0.3 ISU-E
	rCan f 2	Lipocalin	<0.3 ISU-E
	nCan f 3	Serum albumin	<0.3 ISU-E
	rCan f 5	Arginine Esterase	14 ISU-E



Aeroallergens

Horse	rEqu c 1	Lipocalin	<0.3 ISU-E
	nEqu c 3	Serum albumin	<0.3 ISU-E
Cat	rFel d 1	Uteroglobin	<0.3 ISU-E
	nFel d 2	Serum albumin	<0.3 ISU-E
	rFel d 4	Lipocalin	<0.3 ISU-E
Mouse	nMus m 1	Lipocalin	<0.3 ISU-E
Alternaria	rAlt a 1	Acidic glycoprotein	<0.3 ISU-E
	rAlt a 6	Enolase	<0.3 ISU-E
Aspergillus	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	rCla h 8	Mannitol dehydrogenase	<0.3 ISU-E
B. tropicalis (HDM)	rBlo t 5	Mite group 5	<0.3 ISU-E
D. farinae (HDM)	nDer f 1	Cysteine protease	<0.3 ISU-E
	rDer f 2	NPC2 family	<0.3 ISU-E
D. pteronyssinus (HDM)	nDer p 1	Cysteine protease	<0.3 ISU-E
	rDer p 2	NPC2 family	<0.3 ISU-E
	rDer p 10	Tropomyosin	<0.3 ISU-E
L. destructor (storage mite)	rLep d 2	NPC2 family	<0.3 ISU-E
Cockroach	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
	nBla g 7	Tropomyosin	<0.3 ISU-E

Other

Honey bee venom	rApi m 1	Phospholipase A2	<0.3 ISU-E
	nApi m 4	Melittin	<0.3 ISU-E
Paper wasp	rPol d 5	Antigen 5	<0.3 ISU-E
Common wasp	rVes v 5	Antigen 5	<0.3 ISU-E
Anisakis	rAni s 1	Serine protease inhibitor	<0.3 ISU-E
	rAni s 3	Tropomyosin	<0.3 ISU-E
Latex	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
	rHev b 8	Profilin	<0.3 ISU-E
CCD	nMUXF3	CCD	<0.3 ISU-E

ISAC Standardized Units (ISU-E)

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