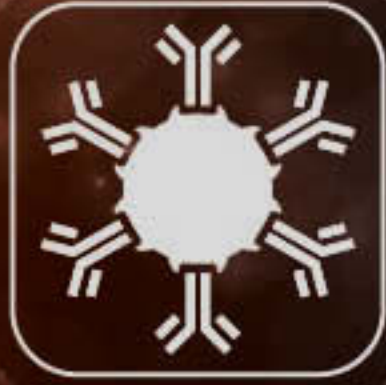




Allergy

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ALLERGY

Allergy (Type I hypersensitivity) affects approximately 25% of the population in industrialized countries. It can manifest in diseases like hay fever, allergic asthma, food allergy, allergic skin inflammation, and anaphylaxis, particularly in children and young adults. It is generally caused by an overreaction of the immune system to otherwise harmless environmental substances and has been associated with reduced childhood exposure to real immunological threats.

Some of the most common allergens include pollen (43% of all patients with allergy), dust mites (23%), foods (20%), animal hair or saliva (18%), drugs (14%) and insect venom (9%). Type I hypersensitivity is characterized by an immediate immune reaction and excessive IgE antibody development.

Our diagnostic panel assays allow determination of the strength of sensitization against a spectrum of allergens. This helps physicians reliably identify the trigger of a patient's allergy and to initiate the required preventive and therapeutic measures.





AESKU's complete in-house production philosophy gives us full control over the entire production chain, guaranteeing the highest quality and most capable product support.

The use of common reagents in all our line immunoassays makes **AESKUBLOTS®** ideal for automation – saving space, cost, and time.

“

*The **AESKUBLOTS®** test line represents a variety of different line immunoassays for efficient profile testing of allergies.*

”

Our **HELIA®** system allows fast, easy, and convenient processing and the quantitative analysis of **AESKUBLOTS®**.

AESKUBLOTS® can be processed manually and results can be produced automatically using the **AESKU.SCAN** software.

Automated **AESKUBLOTS®** Processing on the **HELMED** is coming soon.



AESKUBLOTS®

A COMPREHENSIVE LINE-UP FOR CLEAR RESULTS

Quantitative results shown in kU/L and cap classes





BLOT TESTING

Kit Components



Test principle

- Allergen profiles are coated in lines at precisely defined positions on a nitrocellulose membrane.
- Membrane strips are incubated in patient serum or plasma. Any specific antibodies present bind to the antigen, the unbound fraction is washed off.
- Anti-human IgE immunoglobulins conjugated to Digoxigenin are incubated and react with any antigen-antibody complex. Unbound conjugate is washed off.
- Anti-Digoxigenin immunoglobulins conjugated to reporter enzymes are incubated, and unbound antibodies are washed off.
- TMB substrate is added and converted to a blue precipitate by the bound reporter enzymes. The reaction is stopped by distilled water.
- The intensity of the line is proportional to the concentration of antibodies in the sample.

AESKUBLOTS® Allergy Line

For the detection of specific IgE (human), the **AESKUBLOTS®** Allergy Line is a cost-effective and reliable enzyme immunoassay for in-vitro allergy diagnostics in a convenient profile format. The assay is used for the quantitative determination of specific IgE-antibodies against a selection of relevant allergens for the serological diagnosis of type I hypersensitivities (allergy) in patients. We currently offer thirteen different Allergy Line panels, each with a different breadth and diagnostic focus.

Atopy

Atopy is a genetically determined predisposition toward the development of immediate hypersensitivity reactions (Type I) associated with IgE-antibodies against common environmental antigens (atopic allergy), most commonly manifested as allergic rhinitis, hay fever, bronchial asthma, atopic dermatitis or food allergy. The atopy panels are designed to screen for the most frequent allergens.

Food allergens

Typical allergic reactions caused by food allergens are itchiness, swelling of the tongue, vomiting, diarrhea, hives, troubles breathing, and low blood pressure. Our food allergen panels represent global and local foods and nutrition habits. More than 500 food allergens of seafood, vegetables, fruits, meat, nuts, dairy, grains, and vegan food are available at **AESKU.GROUP**.

Inhalation allergens

Those are associated with allergic rhinitis, bronchial asthma, hay fever, but also with atopic dermatitis. They can be sub-categorized as seasonal and year-round or as inhouse and outdoor allergens. Typical seasonal allergens include pollen from trees, grasses, and flowers. Common perennial allergens are typically animal epithelia, mold, or dust mites.

Venom allergens

Those allergens can cause mild symptoms but also severe anaphylactic reactions. Most relevant are bee and wasp venom allergies, while allergies to ant venom also have been described.

Pediatric allergies

Allergic diseases are the most common chronic ailments of childhood. Main symptoms for allergies are hay fever, episodic or rare cough, dyspnea, inspiratory or expiratory stridor, and skin problems. Main triggers for allergies in children are pollen, mold, dust mites, or animal dander allergens; food allergies are also very common. Seasonal appearance of symptoms is a good indicator of allergies. They are affecting about 20% of children and are the most common cause for pediatric asthma, itself is a major cause for children's hospitalization.

In vitro testing using multi-allergen assays allows testing children against a broader spectrum of allergens with a limited amount of blood to be taken.

If pediatric asthma is diagnosed, the allergens mostly are already known, and henceforth can be avoided.



ALLERGY LINE OVERVIEW

Ref No.	Product Name	Format	No. of Allergens	Allergens	Ig Class	Calibration/ Standard Range
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AESKUBLOTS® ALLERGY ATOPY

AESKUBLOTS®

421001	Allergy ONE BULK120	24 tests	24 allergens	f1, f75, f199, f3, f4, f14, f13, f204, f23, 24, f27, f88, f25, f52, f91, w1, w6, tx21 (t12, t14, t247), e1, e5, h1, dx2 (d1, d2), i6, mx1 (m1, m2, m3, m6), IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421001. BULK120		120 tests				
421407	Allergy SEVEN BULK120	24 tests	39 allergens	t3, t4, t9, t23, t25, g6, g12, g2, g17, w1, w6, w9, e1, e3, e5, dx2 (d1, d2), i6, m2, f1, f199, f3, f41, f23, f24, fx693 (f26, f27, f83, f88), f4, f9, f14, f35, f13, f17, f20, f25, f31, f33, f44, f49, f53, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421407. BULK120		120 tests				
421413	Allergy THIRTEEN BULK120	24 tests	39 allergens	d1, d2, e1, e5, ex71 (e70, e85, e86), g2, g5, t11, t14, t25, t19, w9, w18, m2, m3, m6, f74, f4, f8, f9, f832, f13, f14, f29, f33, f49, w9, w18, m2, m3, m6, f74, f199, f78, f4, f8, f9, f832, f13, f14, f29, f33, f49, f25, f181, f3, fx110 (f40, f41), fx11 (f24, f80, f37), f83, f143, f26, f27, f97, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421413. BULK120		120 tests				

AESKUBLOTS® ALLERGY FOOD

AESKUBLOTS®

421003	Allergy THREE BULK120	24 tests	24 allergens	f1, f199, f4, f7, f8, f9, f10, f89, f13, f14, f49, f29, f91, f52, f31, f47, s15, f16, fx102 (f20, f36, f204), f24, f23, fx103 (f40, f171, f173), f83, fx101 (f26, f27, f88), IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421003. BULK120		120 tests				
421005	Allergy FIVE BULK120	24 tests	24 allergens	f25, f31, f85, f89, f33, f44, f49, f53, f84, f1, f199, f3, f41, f23, f24, fx693 (f26, f27, f83, f88), f4, f9, f14, f35, f13, f17, f20, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421005. BULK120		120 tests				
421009	Allergy NINE BULK120	24 tests	18 allergens	f1, f199, f4, f8, f10, f13, f14, f16, f17, f20, f204, f24, f242, f338, f3, f40, f41, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421009. BULK120		120 tests				
421411	Allergy ELEVEN BULK120	24 tests	39 allergens	f25, f31, f85, f89, f47, f48, f29, f33, f44, f49, f53, f84, f52, f91, f1, f199, f3, f41, f40, f24, f27, f88, f83, f4, f6, f7, f8, f9, f10, f14, f13, f950, f35, s15, f16, f17, f20, f204, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421411. BULK120		120 tests				

AESKUBLOTS® ALLERGY INHALATION

AESKUBLOTS®

421002	Allergy TWO BULK120	24 tests	24 allergens	d1, d2, d201, e1, e5, e73, g12, g13, g2, g6, g8, i6, k82, m2, m3, t18, t230, t3, t214, w1, w10, w13, w6, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421002. BULK120		120 tests				
421004	Allergy FOUR BULK120	24 tests	24 allergens	w1, w6, w9, w21, dx2 (d1, d2), e1, e3, e5, ix1 (i6, i903), k81, k82, m2, t216, t3, t4, t9, t14, t23, g2, g17, gx17 (g1, g3, g5, g8), g6, g12, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421004. BULK120		120 tests				
421006	Allergy SIX BULK120	24 tests	24 allergens	w1, w6, w9, w21, w20, e1, e3, e5, d1, d2, k82, m2, t216, t3, t4, t7, t25, i1, i3, i6, i903, g6, g12, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421006. BULK120		120 tests				
421408	Allergy EIGHT BULK120	24 tests	34 allergens	d1, d2, e1, e5, e72, g2, g5, g6, g10, i6, m1, m2, m3, m6, t1, t2, t3, t6, t7, t247, t9, t10, t11, t14, t25, t19, t70, w1, w6, w11, w14, w18, w20, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421408. BULK120		120 tests				

*Cross-reactive carbohydrate determinants (CCD) are protein linked carbohydrate structures present in a wide range of allergens from plants, pollen, mollusks, and insects. IgE antibodies against CCD are present in 25% of patients suffering from allergic symptoms. IgE antibodies against CCD give rise to the impression of polysensitization.

Anti-CCD IgE antibodies are not allergen-specific and do not seem to be correlated with clinical symptoms. Multiple positive results in combination with a positive CCD result should be interpreted carefully, and false-positive results due to anti-CCD IgE antibodies should be considered.

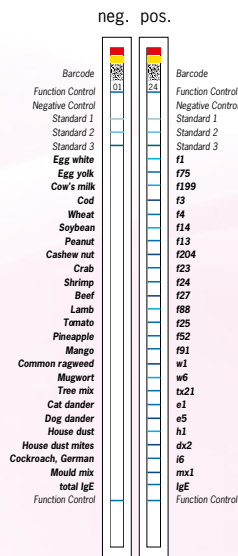
Ref No.	Product Name	Format	No. of Allergens	Allergens	Ig Class	Calibration / Standard Range
AESKUBLOTS® ALLERGY INHALATION						
421412	Allergy TWELVE BULK120	24 test	35 allergens	d1, d2, d201, e1, e5, e72, g2, g17, g6, g10, i6, m1, m2, m3, m6, t1, t3, t6, t7, t247, t10, t11, t14, t25, t230, t33, t70, w1, w6, w11, w14, w18, w20, w35, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421412.		120 test				
BULK120						
AESKUBLOTS® ALLERGY VENOM						
AESKUBLOTS®						
421006	Allergy SIX BULK120	24 tests	24 allergens	w1, w6, w9, w21, w20, e1, e3, e5, d1, d2, k82, m2, t216, t3, t4, t7, t25, i1, i3, i6, i903, g6, g12, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421006.		120 tests				
BULK120						
AESKUBLOTS® ALLERGY PEDIATRIC						
AESKUBLOTS®						
421010	Allergy TEN BULK120	24 tests	17 allergens	d1, d2, e1, e5, e72, i6, m2, m6, f1, f199, f4, f13, f14, f16, f3, f24, CCD*, IgE	IgE	quantitative class 0-6 / 0.35-100 kU/L
421010.		120 tests				
BULK120						

*Cross-reactive carbohydrate determinants (CCD) are protein linked carbohydrate structures present in a wide range of allergens from plants, pollen, mollusks, and insects. IgE antibodies against CCD are present in 25% of patients suffering from allergic symptoms. IgE antibodies against CCD give rise to the impression of polysensitization.

Anti-CCD IgE antibodies are not allergen-specific and do not seem to be correlated with clinical symptoms. Multiple positive results in combination with a positive CCD result should be interpreted carefully, and false-positive results due to anti-CCD IgE antibodies should be considered.



ALLERGY LINE



AESKUBLOTS® Allergy ONE

Reference: 421001

Tests per Kit: 24/120

Color Code: Red - Yellow

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).

AESKUBLOTS® Allergy TWO

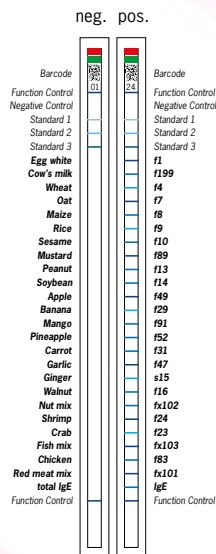
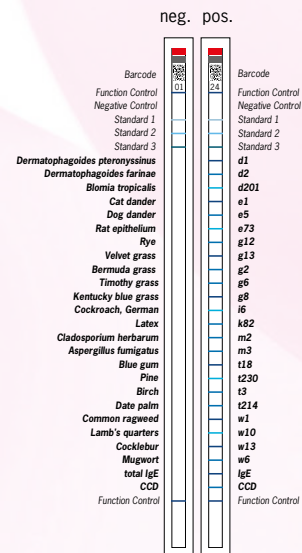
Reference: 421002

Tests per Kit: 24/120

Color Code: Red - Grey

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy THREE

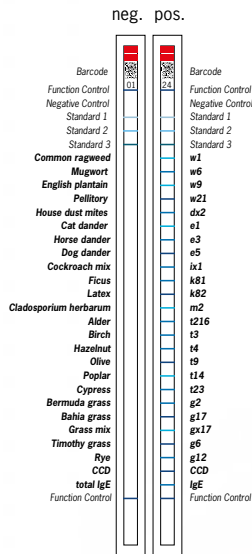
Reference: 421003

Tests per Kit: 24/120

Color Code: Red - Green

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy FOUR

Reference: 421004

Tests per Kit: 24/120

Color Code: Red - Red

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).

AESKUBLOTS® Allergy FIVE

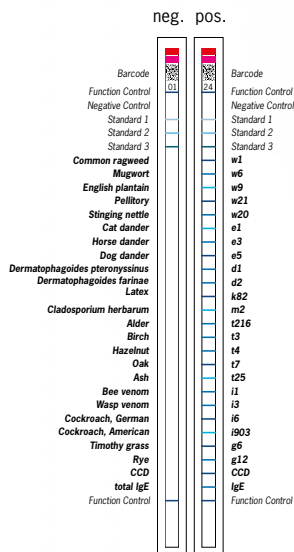
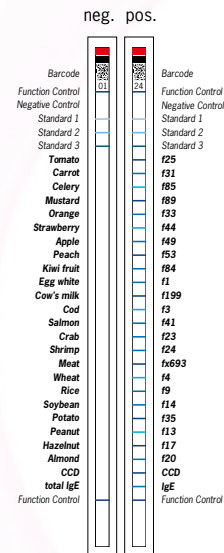
Reference: 421005

Tests per Kit: 24/120

Color Code: Red - Black

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy SIX

Reference: 421006

Tests per Kit: 24/120

Color Code: Red - Pink

Conjugate: anti-human IgE

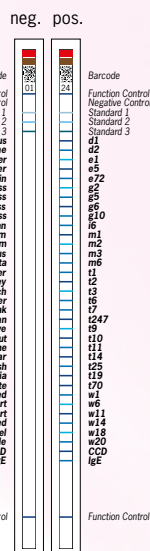
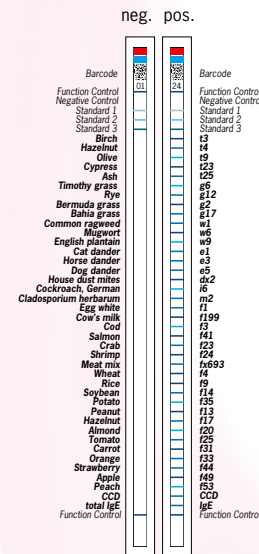
Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).

ALLERGY LINE

AESKUBLOTS® Allergy SEVEN

Reference: 421407
 Tests per Kit: 24/120
 Color Code: Red - Cyan
 Conjugate: anti-human IgE

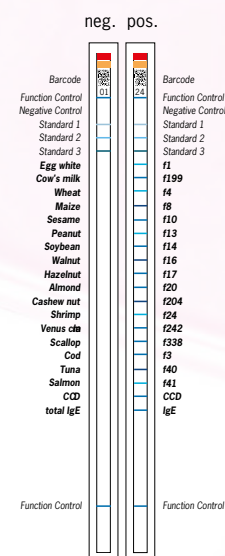
Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy EIGHT

Reference: 421408
 Tests per Kit: 24/120
 Color Code: Red - Brown
 Conjugate: anti-human IgE

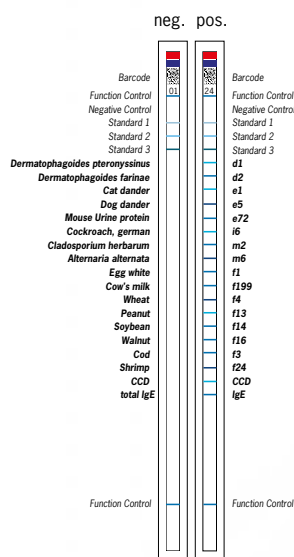
Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy NINE

Reference: 421009
 Tests per Kit: 24/120
 Color Code: Red - Orange
 Conjugate: IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy TEN

Reference: 421010

Tests per Kit: 24/120

Color Code: Red - Dark Blue

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).

AESKUBLOTS® Allergy ELEVEN

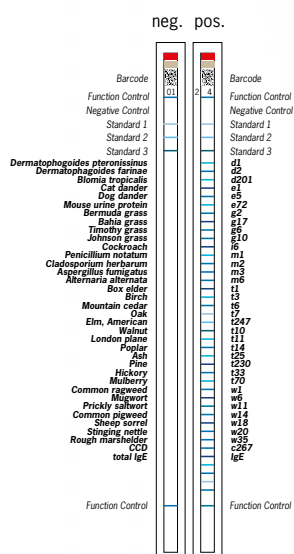
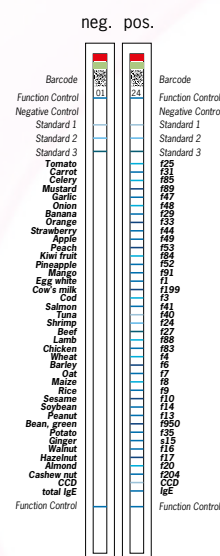
Reference: 421411

Tests per Kit: 24/120

Color Code: Red - Light green

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



AESKUBLOTS® Allergy TWELVE

Reference: 421412

Tests per Kit: 24/120

Color Code: Red - Light gold

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).

ALLERGY LINE

AESKUBLOTS® Allergy THIRTEEN

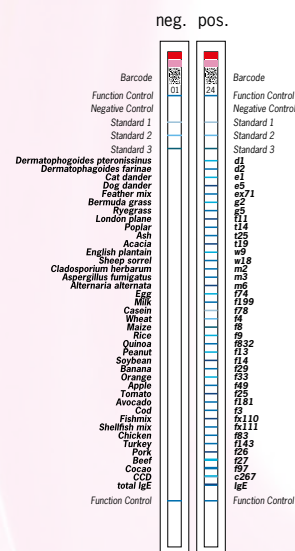
Reference: 421413

Tests per Kit: 24/120

Color Code: Red - Pink

Conjugate: anti-human IgE

Membrane-based enzyme immunoassay for quantitative detection of IgE-antibodies against multiple allergens and total IgE in human serum and plasma. Antigens are positioned in parallel lines at exactly defined positions on a nitrocellulose membrane. This assay is a tool in differential diagnosis of Type I hypersensitivity (allergy).



Lists of Allergens

AESKUBLOTS® Allergy ONE

No.	Code	English Name	Scientific Name
1	f1	Egg white	Gallus gallus domesticus
2	f75	Egg yolk	Gallus gallus domesticus
3	f199	Milk	Bos primigenius f. taurus
4	f3	Cod	Gadus morhua
5	f4	Wheat	Triticum aestivum
6	f14	Soybean	Glycine max
7	f13	Peanut	Arachis hypogaea
8	f204	Cashew nut	Anacardium occidentale
9	f23	Crab	Callinectes sapidus
10	f24	Shrimp	Penaeus monodon
11	f27	Beef	Bos primigenius f. taurus
12	f88	Lamb	Ovis aries
13	f25	Tomato	Lycopersicon esculentum
14	f52	Pineapple	Ananas comosus
15	f91	Mango	Mangifera indica
16	w1	Common Ragweed	Ambrosia artemisiifolia
17	w6	Mugwort	Artemisia vulgaris
18	tx21 (t12) (t14) (t247)	Tree mix (Goat willow) (Poplar) (Elm, American)	(Salix caprea) (Populus deltoides) (Ulmus americana)
19	e1	Cat dander	Felis domesticus
20	e5	Dog dander	Canis familiaris
21	h1	House dust	-
22	dx2 (d1) (d2)	House dust mites (Dermatophagoides pteronyssinus) (Dermatophagoides farinae)	(Dermatophagoides pteronyssinus) (Dermatophagoides farinae)
23	i6	Cockroach, German	Blattella germanica
24	mx1 (m1) (m2) (m3) (m6)	Mould mix (Penicillium notatum) (Cladosporium herbarum) (Aspergillus fumigatus) (Alternaria alternata)	(Penicillium notatum) (Cladosporium herbarum) (Aspergillus fumigatus) (Alternaria alternata)
25	IgE	total IgE	total IgE

AESKUBLOTS® Allergy TWO

No.	Code	English Name	Scientific Name
1	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
2	d2	Dermatophagoides farinae	Dermatophagoides farinae
3	d201	Blomia tropicalis	Blomia tropicalis
4	e1	Cat dander	Felis domesticus
5	e5	Dog dander	Canis familiaris
6	e73	Rat epithelium	Rattus norvegicus
7	g12	Rye	Secale cereale
8	g13	Velvet grass	Holcus lanatus
9	g2	Bermuda grass	Cynodon dactylon
10	g6	Timothy grass	Phleum pratense
11	g8	Kentucky blue grass	Poa pratensis
12	i6	Cockroach, German	Blattella germanica
13	k82	Latex	Hevea brasiliensis
14	m2	Cladosporium herbarum	Cladosporium herbarum
15	m3	Aspergillus fumigatus	Aspergillus fumigatus
16	t18	Blue gum	Eucalyptus globulus
17	t230	Pine	Pinus strobus
18	t3	Birch	Betula verrucosa, syn. pendula
19	t214	Date palm	Phoenix dactylifera
20	w1	Common ragweed	Ambrosia artemisiifolia
21	w10	Lamb's quarters	Chenopodium album
22	w13	Cocklebur	Xanthium commune
23	w6	Mugwort	Artemisia vulgaris
24	IgE	total IgE	total IgE
25	CCD	CCD*	CCD*



ALLERGY LINE

AESKUBLOTS® Allergy THREE

No.	Code	English Name	Scientific Name
1	f1	Egg white	Gallus gallus domesticus
2	f199	Milk	Bos primigenius f. taurus
3	f4	Wheat	Triticum aestivum
4	f7	Oat	Avena sativa
5	f8	Maize	Zea mays
6	f9	Rice	Oryza sativa
7	f10	Sesame	Sesamum indicum
8	f89	Mustard	Sinapis alba
9	f13	Peanut	Arachis hypogaea
10	f14	Soybean	Glycine max
11	f49	Apple	Malus domestica
12	f29	Banana	Musa x paradisiaca
13	f91	Mango	Mangifera indica
14	f52	Pineapple	Ananas comosus
15	f31	Carrot	Daucus carota
16	f47	Garlic	Allium sativum
17	s15	Ginger	Zingiber officinale
18	f16	Walnut	Juglans regia
19	fx102 (f20) (f36) (f204)	Nut mix (Almond) (Coconut) (Cashew nut)	(Prunus amygdalus) (Cocos nucifera) (Anacardium occidentale)
20	f24	Shrimp	Penaeus monodon
21	f23	Crab	Callinectes sapidus
22	fx103 (f40) (f171) (f173)	Fish mix (Tuna) (Mackerel) (Sardine)	(Thunnus lbacares) (Scomber scombrus) (Sardina pilchardus)
23	f83	Chicken	Gallus gallus domesticus
24	fx101 (f26) (f27) (f88)	Red meat mix (Pork) (Beef) (Lamb)	(Sus scrofa domestica) (Bos primigenius f. taurus) (Ovis aries)
25	IgE	total IgE	total IgE

AESKUBLOTS® Allergy FOUR

No.	Code	English Name	Scientific Name
1	w1	Common Ragweed	Ambrosia artemisiifolia
2	w6	Mugwort	Artemisia vulgaris
3	w9	English plantain	Plantago lanceolata
4	w21	Pellitory	Parietaria judaica
5	dx2 (d1) (d2)	House dust mites (Dermatophagoides pteronyssinus) (Dermatophagoides farinae)	(Dermatophagoides pteronyssinus) (Dermatophagoides farinae)
6	e1	Cat dander	Felis domesticus
7	e3	Horse dander	Equus caballus
8	e5	Dog dander	Canis familiaris
9	ix1 (i6) (i903)	Cockroach mix (German cockroach) (American cockroach)	(Blattella germanica) (Periplaneta americana)
10	k81	Ficus	Ficus benjamina
11	k82	Latex	Hevea brasiliensis
12	m2	Cladosporium herbarum	Cladosporium herbarum
13	t216	Alder	Alnus glutinosa
14	t3	Birch	Betula verrucosa, syn. pendula
15	t4	Hazelnut	Corylus avellana
16	t9	Olive	Olea europaea
17	t14	Poplar	Populus deltoides
18	t23	Cypress	Cupressus sempervirens
19	g2	Bermuda grass	Cynodon dactylon
20	g17	Bahia grass	Paspalum notatum
21	gx17 (g1) (g3) (g5) (g8)	Grass mix (Sweet vernal grass) (Orchard grass) (Ryegrass) (Kentucky blue grass)	(Anthoxanthum odoratum) (Dactylis glomerata) (Lolium perenne) (Poa pratensis)
22	g6	Timothy grass	Phleum pratense
23	g12	Rye	Secale cereale
24	CCD	CCD*	CCD*
25	IgE	total IgE	total IgE

*Cross-reactive carbohydrate determinants (CCD) are protein linked carbohydrate structures present in a wide range of allergens from plants, pollen, mollusks, and insects. IgE antibodies against CCD are present in 25% of patients suffering from allergic symptoms. IgE antibodies against CCD give rise to the impression of polysensitization.

Anti-CCD IgE antibodies are not allergen-specific and do not seem to be correlated with clinical symptoms. Multiple positive results in combination with a positive CCD result should be interpreted carefully, and false-positive results due to anti-CCD IgE antibodies should be considered.

Lists of Allergens

AESKUBLOTS® Allergy FIVE

No.	Code	English Name	Scientific Name
1	f25	Tomato	Lycopersicon esculentum
2	f31	Carrot	Daucus carota
3	f85	Celery	Apium graveolens
4	f89	Mustard	Sinapis alba
5	f33	Orange	Citrus sinensis
6	f44	Strawberry	Fragaria vesca
7	f49	Apple	Malus domestica
8	f53	Peach	Prunus persica
9	f84	Kiwi fruit	Actinidia deliciosa
10	f1	Egg white	Gallus gallus domesticus
11	f199	Milk	Bos primigenius f. taurus
12	f3	Cod	Gadus morhua
13	f41	Salmon	Salmo salar
14	f23	Crab	Callinectes sapidus
15	f24	Shrimp	Penaeus monodon
16	fx693 (f26)	Meat (Pork)	(Sus scrofa domestica)
	(f27)	(Beef)	(Bos primigenius f. taurus)
	(f83)	(Chicken)	(Gallus gallus domesticus)
	(f88)	(Lamb)	(Ovis aries)
17	f4	Wheat	Triticum aestivum
18	f9	Rice	Oryza sativa
19	f14	Soybean	Glycine max
20	f35	Potato	Solanum tuberosum
21	f13	Peanut	Arachis hypogaea
22	f17	Hazelnut	Corylus avellana
23	f20	Almond	Prunus amygdalus
24	CCD	CCD*	CCD*
25	IgE	total IgE	total IgE

AESKUBLOTS® Allergy SIX

No.	Code	English Name	Scientific Name
1	w1	Common Ragweed	Ambrosia artemisiifolia
2	w6	Mugwort	Artemisia vulgaris
3	w9	English plantain	Plantago lanceolata
4	w21	Pellitory	Parietaria judaica
5	w20	Stinging nettle	Urtica dioica
6	e1	Cat dander	Felis domesticus
7	e3	Horse dander	Equus caballus
8	e5	Dog dander	Canis familiaris
9	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
10	d2	Dermatophagoides farinae	Dermatophagoides farinae
11	k82	Latex	Hevea brasiliensis
12	m2	Cladosporium herbarum	Cladosporium herbarum
13	t216	Alder	Alnus glutinosa
14	t3	Birch	Betula verrucosa, syn. pendula
15	t4	Hazelnut	Corylus avellana
16	t7	Oak	Quercus alba
17	t25	Ash	Fraxinus excelsior
18	i1	Bee venom	Apis mellifera
19	i3	Wasp venom	Vespula spp.
20	i6	Cockroach, German	Blattella germanica
21	i903	Cockroach, American	Periplaneta americana
22	g6	Timothy grass	Phleum pratense
23	g12	Rye	Secale cereale
24	CCD	CCD*	CCD*
25	IgE	total IgE	total IgE

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ALLERGY LINE

AESKUBLOTS® Allergy SEVEN

No.	Code	English Name	Scientific Name
1	t3	Birch	Betula verrucosa, syn. pendula
2	t4	Hazelnut	Corylus avellana
3	t9	Olive	Olea europaea
4	t23	Cypress	Cupressus sempervirens
5	t25	Ash	Fraxinus excelsior
6	g6	Timothy grass	Phleum pratense
7	g12	Rye	Secale cereale
8	g2	Bermuda grass	Cynodon dactylon
9	g17	Bahia grass	Paspalum notatum
10	w1	Common Ragweed	Ambrosia artemisiifolia
11	w6	Mugwort	Artemisia vulgaris
12	w9	English plantain	Plantago lanceolata
13	e1	Cat dander	Felis domesticus
14	e3	Horse dander	Equus caballus
15	e5	Dog dander	Canis familiaris
16	dx2 (d1) (d2)	House dust mites (Dermatophagoides pteronyssinus) (Dermatophagoides farinae)	(Dermatophagoides pteronyssinus) (Dermatophagoides farinae)
17	i6	Cockroach, German	Blattella germanica
18	m2	Cladosporium herbarum	Cladosporium herbarum
19	f1	Egg white	Gallus gallus domesticus
20	f199	Milk	Bos primigenius f. taurus
21	f3	Cod	Gadus morhua
22	f41	Salmon	Salmo salar
23	f23	Crab	Callinectes sapidus
24	f24	Shrimp	Penaeus monodon
25	fx693 (f26) (f27) (f83) (f88)	Meat (Pork) (Beef) (Chicken) (Lamb)	(Sus scrofa domestica) (Bos primigenius f. taurus) (Gallus gallus domesticus) (Ovis aries)
26	f4	Wheat	Triticum aestivum
27	f9	Rice	Oryza sativa
28	f14	Soybean	Glycine max
29	f35	Potato	Solanum tuberosum
30	f13	Peanut	Arachis hypogaea

No.	Code	English Name	Scientific Name
31	f17	Hazelnut	Corylus avellana
32	f20	Almond	Prunus amygdalus
33	f25	Tomato	Lycopersicon esculentum
34	f31	Carrot	Daucus carota
35	f33	Orange	Citrus sinensis
36	f44	Strawberry	Fragaria vesca
37	f49	Apple	Malus domestica
38	f53	Peach	Prunus persica
39	CCD	CCD*	CCD*
40	IgE	total IgE	total IgE

Lists of Allergens

AESKUBLOTS® Allergy EIGHT

No.	Code	English Name	Scientific Name
1	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
2	d2	Dermatophagoides farinae	Dermatophagoides farinae
3	e1	Cat dander	Felis domesticus
4	e5	Dog dander	Canis familiaris
5	e72	Mouse urine protein	Mus musculus
6	g2	Bermuda grass	Cynodon dactylon
7	g5	Ryegrass	Lolium perenne
8	g6	Timothy grass	Phleum pratense
9	g10	Johnson grass	Sorghum halepense
10	i6	Cockroach, German	Blattella germanica
11	m1	Penicillium notatum	Penicillium notatum
12	m2	Cladosporium herbarum	Cladosporium herbarum
13	m3	Aspergillus fumigatus	Aspergillus fumigatus
14	m6	Alternaria alternata	Alternaria alternata
15	t1	Box elder	Acer negundo
16	t2	Alder, grey	Alnus incana
17	t3	Birch	Betula verrucosa, syn. pendula
18	t6	Mountain juniper	Juniperus ashei
19	t7	Oak	Quercus alba
20	t247	Elm, American	Ulmus americana
21	t9	Olive	Olea europaea
22	t10	Walnut	Juglans regia
23	t11	London plane	Platanus acerifolia
24	t14	Poplar	Populus deltoides
25	t25	Ash	Fraxinus excelsior
26	t19	Acacia	Acacia longifolia
27	t70	Mulberry	Morus alba
28	w1	Common ragweed	Ambrosia artemisiifolia
29	w6	Mugwort	Artemisia vulgaris
30	w11	Prickly saltwort	Salsola kali
31	w14	Common pigweed	Amaranthus retroflexus
32	w18	Sheep sorrel	Rumex acetosella
33	w20	Stinging nettle	Urtica dioica
34	CCD	CCD*	CCD*
35	IgE	total IgE	total IgE

AESKUBLOTS® Allergy NINE

No.	Code	English Name	Scientific Name
1	f1	Egg white	Gallus gallus domesticus
2	f199	Milk	Bos primigenius f. taurus
3	f4	Wheat	Triticum aestivum
4	f8	Maize	Zea mays
5	f10	Sesame	Sesamum indicum
6	f13	Peanut	Arachis hypogaea
7	f14	Soybean	Glycine max
8	f16	Walnut	Juglans regia
9	f17	Hazelnut	Corylus avellana
10	f20	Almond	Prunus amygdalus
11	f204	Cashew nut	Anacardium occidentale
12	f24	Shrimp	Penaeus monodon
13	f242	Venus clam	Veneridae
14	f338	Scallop	Pecten maximus
15	f3	Cod	Gadus morhua
16	f40	Tuna	Thunnus albacares
17	f41	Salmon	Salmo salar
18	CCD	CCD*	CCD*
19	IgE	total IgE	total IgE

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ALLERGY LINE

AESKUBLOTS® Allergy TEN

No.	Code	English Name	Scientific Name
1	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
2	d2	Dermatophagoides farinae	Dermatophagoides farinae
3	e1	Cat dander	Felis domesticus
4	e5	Dog dander	Canis familiaris
5	e72	Mouse urine protein	Mus musculus
6	i6	Cockroach, German	Blattella germanica
7	m2	Cladosporium herbarum	Cladosporium herbarum
8	m6	Alternaria alternata	Alternaria alternata
9	f1	Egg white	Gallus gallus domesticus
10	f199	Milk	Bos primigenius f. taurus
11	f4	Wheat	Triticum aestivum
12	f13	Peanut	Arachis hypogaea
13	f14	Soybean	Glycine max
14	f16	Walnut	Juglans regia
15	f3	Cod	Gadus morhua
16	f24	Shrimp	Penaeus monodon
17	CCD	CCD*	CCD*
18	IgE	total IgE	total IgE

AESKUBLOTS® Allergy ELEVEN

No.	Code	English Name	Scientific Name
1	f25	Tomato	Lycopersicon esculentum
2	f31	Carrot	Dacus carota
3	f85	Celery	Apium graveolens
4	f89	Mustard	Sinapsis alba
5	f47	Garlic	Allium odoratum
6	f48	Onion	Allium cepa
7	f29	Banana	Musa x paradisiaca
8	f33	Orange	Citrus sinensis
9	f44	Strawberry	Fragaria vesca
10	f49	Apple	Malus domestica
11	f53	Peach	Prunus persica
12	f84	Kiwi fruit	Actinidia deliciosa
13	f52	Pineapple	Ananas comosus
14	f91	Mango	Mangifera indica
15	f1	Egg white	Gallus gallus domesticus
16	f199	Milk	Bos primigenius f. taurus
17	f3	Cod	Gadus morhua
18	f41	Salmon	Salmo salar
19	f40	Tuna	Thunnus albacares
20	f24	Shrimp	Penaeus monodon
21	f27	Beef	Bos primigenius f. taurus
22	f88	Lamb	Ovis aries
23	f83	Chicken	Gallus gallus domesticus
24	f4	Wheat	Triticum aestivum
25	f6	Barley	Hordeum vulgare
26	f7	Oat	Avena sativa
27	f8	Maize	Zea mays
28	f9	Rice	Oryza sativa
29	f10	Sesame	Sesamum indicum
30	f14	Soybean	Glycine max
31	f13	Peanut	Arachis hypogaea
32	f950	Bean, green	Phaseolus vulgaris
33	f35	Potato	Olanum tuberosum
34	s15	Ginger	Zingiber officinale
35	f16	Walnut	Juglans regia
36	f17	Hazelnut	Corylus avellana
37	f20	Almond	Prunus amygdalus
38	f204	Cashew nut	Anacardium occidentale
39	CCD	CCD*	CCD*
40	IgE	total IgE	total IgE



Lists of Allergens

AESKUBLOTS® Allergy TWELVE

No.	Code	English Name	Scientific Name
1	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
2	d2	Dermatophagoides farinae	Dermatophagoides farinae
3	d201	Blomia tropicalis	Blomia tropicalis
4	e1	Cat dander	Felis domesticus
5	e5	Dog dander	Canis familiaris
6	e72	Mouse urine protein	Mus musculus
7	g2	Bermuda grass	Cynodon dactylon
8	g17	Bahia grass	Paspalum notatum
9	g6	Timothy grass	Phleum pratense
10	g10	Johnson grass	Sorghum halepense
11	i6	Cockroach, German	Blattella germanica
12	m1	Penicillium notatum	Penicillium notatum
13	m2	Cladosporium herbarum	Cladosporium herbarum
14	m3	Aspergillus fumigatus	Aspergillus fumigatus
15	m6	Alternaria alternata	Alternaria alternata
16	t1	Box elder	Acer negundo
17	t3	Birch	Betula verrucosa, syn. pendula
18	t6	Mountain cedar	Juniperus ashei
19	t7	Oak	Quercus alba
20	t247	Elm, American	Ulmus americana
21	t10	Walnut	Juglans regia
22	t11	London plane	Platanus acerifolia
23	t14	Poplar	Populus deltoides
24	t25	Ash	Fraxinus excelsior
25	t230	Pine	Pinus strobus
26	t33	Pecan	Carya illinoensis
27	t70	Mulberry	Morus alba
28	w1	Common ragweed	Ambrosia artemisiifolia
29	w6	Mugwort	Artemisia vulgaris
30	w11	Prickly saltwort	Salsola kali
31	w14	Common pigweed	Amaranthus retroflexus
32	w18	Sheep sorrel	Rumex acetosella
33	w20	Stinging nettle	Urtica dioica
34	w35	Rough marshelder	-
35	CCD	CCD*	CCD*
36	IgE	total IgE	total IgE

AESKUBLOTS® Allergy THIRTEEN

No.	Code	English Name	Scientific Name
1	d1	Dermatophagoides pteronyssinus	Dermatophagoides pteronyssinus
2	d2	Dermatophagoides farinae	Dermatophagoides farinae
3	e1	Cat dander	Felis domesticus
4	e5	Dog dander	Canis familiaris
5	ex71	Feather mix	
	(e70)	(Goose feather)	(Anser anser)
	(e85)	(Chicken feather)	(Gallus gallus domesticus)
	(e86)	(Duck feather)	(Anas platyrhynchos)
6	g2	Bermuda grass	Cynodon dactylon
7	g5	Ryegrass	Lolium perenne
8	t11	London plane	Platanus acerifolia
9	t14	Poplar	Populus deltoides
10	t25	Ash	Fraxinus excelsior
11	t19	Acacia	Acacia longifolia
12	w9	English plantain	Plantago lanceolata
13	w18	Sheep sorrel	Rumex acetosella
14	m2	Cladosporium herbarum	Cladosporium herbarum
15	m3	Aspergillus fumigatus	Aspergillus fumigatus
16	m6	Alternaria alternata	Alternaria alternata
17	f74	Egg	Gallus gallus domesticus
18	f199	Milk	Bos primigenius f. taurus
19	f78	Casein	Bos primigenius f. taurus
20	f4	Wheat	Triticum aestivum
21	f8	Maize	Zea mays
22	f9	Rice	Oryza sativa
23	f832	Quinoa	Chenopodium quinoa
24	f13	Peanut	Arachis hypogaea
25	f14	Soybean	Glycine max
26	f29	Banana	Musa x paradisiaca
27	f33	Orange	Citrus sinensis
28	f49	Apple	Malus domestica
29	f25	Tomato	Lycopersicon esculentum
30	f181	Avocado	Persea americana
31	f3	Cod	Gadus morhua
32	fx110	Fishmix	
	(f40)	(Tuna)	(Thunnus albacares)
	(f41)	(Salmon)	(Salmo salar)
	fx111	Shellfish mix	
33	(f24)	(Shrimp)	(Penaeus monodon)
	(f80)	(Lobster)	(Homarus gammarus)
	(f37)	(Blue mussel)	(Mytilus edulis)
34	f83	Chicken	Gallus gallus domesticus
35	f143	Turkey	Meleagris gallopavo
36	f26	Pork	Sus scrofa domestica
37	f27	Beef	Bos primigenius f. taurus
38	f97	Cocoa	Theobroma cacao
39	c267	CCD	CCD*
40	IgE	total IgE	total IgE

PRODUCT HIGHLIGHTS

Highlights of **AESKUBLOTS®** Immunoassays for the Diagnosis of Allergy

Automation friendly due to common reagents and protocols

Inter-assay precision: mean coefficient of variation <15%

Standards, negative and functional controls on each strip

Excellent correlation with the ImmunoCAP system

Screening and differentiation in one assay

Up to 39 allergens determined on one strip

Quantitative results shown in kU/L and cap classes

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