



Food Intolerance

AESKUBLOTS® & AESKUCARE®

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FOOD INTOLERANCE

Food intolerance is defined as adverse reactions to foods, beverages, ingredients, or additives not due to classical IgE-mediated food allergies.

Symptoms of food intolerance reactions cover a wide spectrum and are not limited to the digestive tract. While food allergy reactions typically occur within minutes, food intolerance reactions are predominantly delayed-type reactions. In addition, food intolerance reactions are rather unspecific, such as intestinal cramps, flatulence, diarrhea or constipation, urticaria, hives, headaches, or fatigue.

This makes it often very difficult to identify relevant food components provoking the symptoms and the underlying pathogenic mechanisms, as they can be very different.

Food intolerance is often due to a deficit in enzymes required to digest certain food components like sugars or histamine.

There can be underlying medical conditions resulting in adverse reactions to food, e.g., by delaying food digestion or limiting the absorption of nutrients.

In other cases, a patient may react specifically to components of a certain food, like special proteins, by immunological mechanisms.

In the first case, appropriate diagnostic procedures can be used to detect if a patient lacks enzymes required to digest, e.g., fructose or lactose, for example, by a simple breath test.

In the case of immunogenic reactions, identifying the critical foods can be very difficult. The most accepted procedure is a mixture of an elimination diet and stepwise provocation with individual food components.

Unfortunately, it is quite tedious and lengthy, usually performed in special clinics, and can be inconclusive. So far, the mechanisms behind these adverse reactions are not well understood. Nevertheless, measuring IgG and IgG₄ antibodies against food components can support and accelerate the identification of the foods that the patients should omit.

Our tests are very precise tools to detect IgG respectively IgG₄ antibodies in patients with suspected immunogenic food intolerance. They allow testing against a wide spectrum of foods and food components at once.

AESKULISA® and **AESKUBLOTS®** tests can be performed manually or automated, requiring only common laboratory devices and procedures. The **AESKUCARE®** test, a POCT device, allows testing of an individual patient's blood during a patient's visit at the practitioner's office, requiring just a few drops of blood from a finger prick.

All our tests are CE-marked and follow the high diagnostic standards used in IgE allergy testing but are specific for IgG and IgG₄ antibodies.

Food intolerances are a growing burden worldwide. To address this issue, **AESKU.DIAGNOSTICIS** has developed the **AESKUBLOTS®** Food Intolerance test line, a membrane-based enzyme immunoassay for the quantitative determination of food-specific IgG₄ antibodies in patient specimens.

AESKU's complete in-house production philosophy for **AESKUBLOTS®** products allows **AESKU** to have full control over the entire production chain, guaranteeing highest quality and unique product support.

Use of common reagents in all our food intolerance Immunoblots makes **AESKUBLOTS®** ideal for automation, saving space, cost and time with optimized loading, and reagents' preparation.

“

AESKUBLOTS® test line represents a variety of different immunoblots for efficient profile testing of food intolerances.

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For fast, easy, and convenient automated processing and evaluation of **AESKUBLOTS®** the **HELIA®** system can be used. Automated **AESKUBLOTS®** Processing on the **HELMED** is coming soon.





AESKUBLOTS®

A STRATEGIC LINE-UP TO CHASE CLEAR RESULTS





BLOT TESTING

Kit Components



Test principle

- Controls, standards, and 40 different food extracts are coated on the test strips in equispaced lines.
- Serum sample from patient is added, during incubation, specific antibodies bind to the coated food extracts on the membrane. Afterwards, unbound antibodies are washed away.
- In a second incubation step, the specific antibodies are detected with an anti-human IgG₄ antibody conjugated with the enzyme horseradish peroxidase (HRP). Afterwards, unbound conjugates are washed away.
- The strips are incubated with a TMB substrate solution. TMB-substrate is converted by an enzymatic reaction to a blue precipitate. Densitometric quantification of the color intensity allows calculating the patient's sIgG₄ level of each tested food extract. The observed intensity of blue color is proportional to the antibody concentration in patients sample.

AESKUBLOTS® Food Intolerance Line

for quantitative detection of food specific IgG₄ antibodies. A cost effective and reliable immunoassay.

More than 500 food extracts sorted into four different groups are available:

Sea food

Shrimp, crab, tuna, cuttlefish, salmon, cod fish, mackerel, sardine, oyster, blue mussel, scallop, i. a.



Meat

Pork, beef, sheep, lamb, goose, duck, chicken, turkey, rabbit, i. a.

Vegetables & fruits

Soy, beans, banana, apple, pineapple, strawberry, kiwi, raspberry, plum, i. a.



Nuts, dairy products, grains and others

Peanut, almond, hazelnut, eggs, casein, milk, milk protein, pepper, spelt, oat, barley, malt, buckwheat, amaranth, quinoa, sorghum, yeast, ginger, i. a.

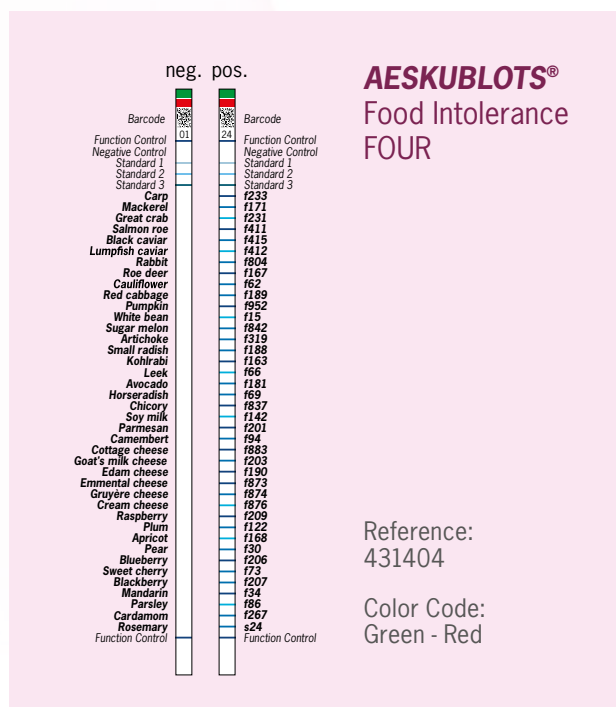
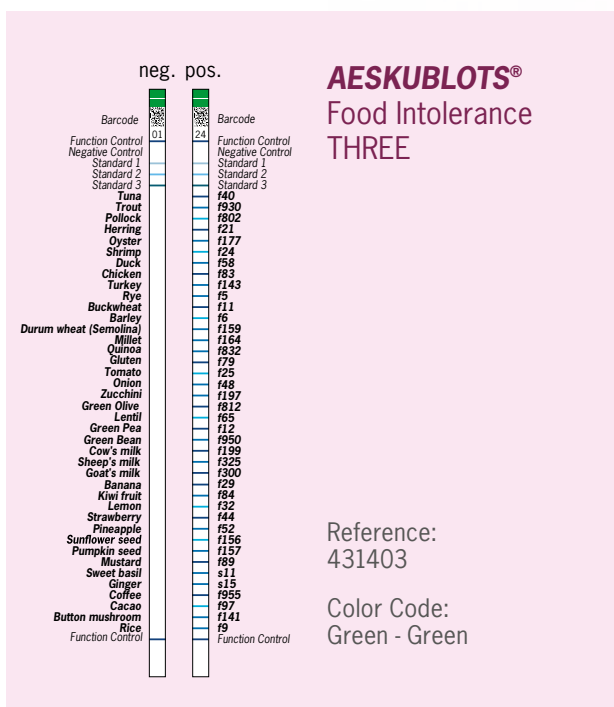
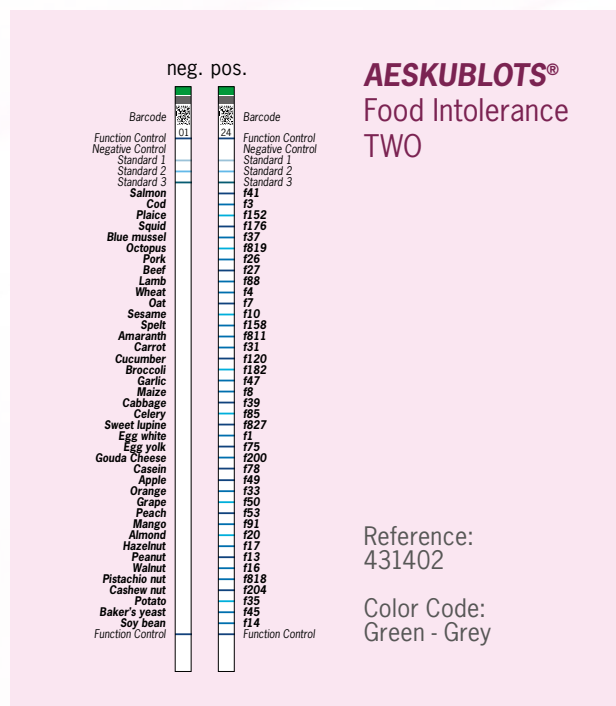
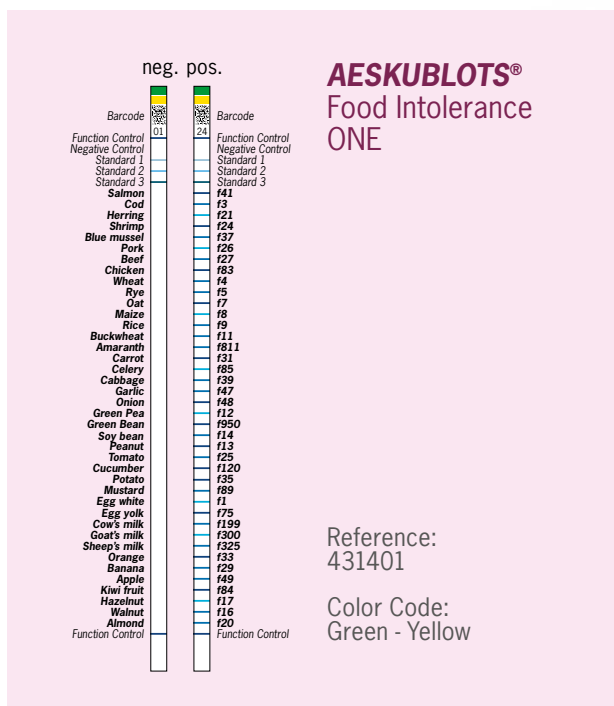
FOOD INTOLERANCE LINE OVERVIEW

Ref No.	Product Name	Format	Food Extracts	Ig Class	Calibration/ Standard Range
FOOD INTOLERANCE					
AESKUBLOTS®					
431401	Food Intolerance ONE	24 tests 40 foods	f41, f3, f21, f24, f37, f26, f27, f83, f4, f5, f7, f8, f9, f11, f811, f31, f85, f39, f47, f48, f12, f950, f14, f13, f25, f120, f35, f89, f1, f75, f199, f300, f325, f33, f29, f49, f84, f17, f16, f20	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431402	Food Intolerance TWO	24 tests 40 foods	f41, f3, f152, f176, f37, f819, f26, f27, f88, f4, f7, f10, f158, f811, f31, f120, f182, f47, f8, f39, f85, f827, f1, f75, f200, f78, f49, f33, f50, f53, f91, f20, f17, f13, f16, f818, f204, f35, f45, f14	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431403	Food Intolerance THREE	24 tests 40 foods	f40, f930, f802, f21, f177, f24, f58, f83, f143, f5, f11, f6, f159, f164, f832, f79, f25, f48, f197, f812, f65, f12, f950, f199, f325, f300, f29, f84, f32, f44, f52, f156, f157, f89, s11, s15, f955, f97, f141, f9	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431404	Food Intolerance FOUR	24 tests 40 foods	f233, f171, f231, f411, f415, f412, f804, f167, f62, f189, f952, f15, f842, f319, f188, f163, f66, f181, f69, f837, f142, f201, f94, f883, f203, f190, f873, f874, f876, f209, f122, f168, f30, f206, f73, f207, f34, f86, f267, s24	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431405	Food Intolerance FIVE	24 tests 40 foods	f170, f173, f324, f902, f867, f271, f186, f288, f38, f187, f149, f191, f132, f287, f310, f311, f947, f205, f875, f863, f810, f162, f210, f211, f146, f213, f217, f329, f103, f18, f36, f216, f345, s5, s27, s25, s13, f98, f19, f936	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431406	Food Intolerance SIX	24 tests 40 foods	f803, f327, f172, f935, f128, f57, f212, f304, f312, f183, f843, f846, 180, f844, f306, f850, f943, f942, f948, f491, f343, f87, f124, f831, f236, f126, s12, s3, s7, s14, s9, s4, s8, f858, f841, s21, f165, f911, f334, f90	IgG ₄	quantitative class 0–6 0.35–100 kUA/L
431407	Food Intolerance SEVEN	24 tests 40 foods	f145, f307, f174, f175, f55, f80, f338, f169, f166, f572, f284, f309, f150, f92, f101, f196, f194, f838, f471, f272, f316, f481, f834, f222, f96, f99, f848, f651, f964, f226, f193, s23, s2, s31, s800, s802, f198, f283, f450, f791	IgG ₄	quantitative class 0–6 0.35–100 kUA/L

AESKUBLOTS® Food Intolerance LINE

Membrane-based enzyme immunoassay for quantitative detection of food-specific IgG₄ antibodies in human serum or plasma. Food extracts are coated as parallel lines at exactly defined positions on a nitrocellulose membrane. Food-specific IgG₄ antibodies, if present in patient specimens, bind to the coated food extracts. Food-specific IgG₄ antibodies will be detected by a colorimetric reaction.

The assay permits a large number of tests to be conducted in parallel over a short period of time. The assay is used to support the diagnostic process in patients suspected to have food intolerances.



FOOD INTOLERANCE LINE

AESKUBLOTS®
Food Intolerance
FIVE

neg. pos.

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

Pike
Sardine
European Perch
Halibut
Red deer
Veal
Fennel
Broad bean
Spinach
Kale
Eggplant
Beet root
Asparagus
Red kidney bean
White radish
Brussels sprouts
Papaya
Foghurt
Mozzarella
Cream
Curd cheese
Nectarine
Red currant
Cranberry
Grapefruit
Raisin
Black currant
Water melon
Pecan nut
Brazil nut
Coconut
Pine nut
Macadamia nut
Nutmeg apple
Common thyme
Common sage
Coriander seed
Flax seed
Sweet chestnut
Kelp
Function Control

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

f170
f173
f324
f902
f867
f271
f186
f288
f38
f187
f149
f191
f132
f287
f310
f311
f947
f205
f875
f863
f810
f162
f210
f211
f146
f213
f217
f329
f103
f18
f36
f216
f345
s5
s27
s25
s13
f98
f19
f936
Function Control

Reference:
431405

Color Code:
Green - Black

AESKUBLOTS®
Food Intolerance
SIX

neg. pos.

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

Pikeperch
European catfish
Anchovy
Abalone
Grapevine snail
Goose
Rhubarb
Turnip
Rucola
Napa cabbage
Chanterelle
Boletus
Oyster mushroom
Shiitake
Lime
Sea buckthorn juice
Litchi
Persimmon
Passion fruit
Pomegranates
Rose hip
Honeydew melon
Honey
Kamut wheat
Cow whey
Peppermint
Summer savory
Caraway
Black pepper
Dill
Vanilla
Bay leaf
Cinnamon
Lemon balm
Dandelion
Clove
Poppy seed
Tofu
Hops
Malt
Function Control

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

f803
f327
f172
f835
f128
f57
f212
f304
f312
f183
f843
f846
f180
f844
f306
f850
f943
f942
f948
f491
f343
f87
f124
f831
f236
f126
s12
s3
s7
s14
s9
s4
s8
f858
f841
s21
f165
f911
f334
f90
Function Control

Reference:
431406

Color Code:
Green - Magenta

AESKUBLOTS®
Food Intolerance
SEVEN

neg. pos.

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

Turbot
Hake
Sole
Haddock
Eel
Lobster
Scallop
Horse
Wild boar
Quail
Ostrich
Chickpea
Carob
Shaddock
Swede
Savoy cabbage
Lettuce
Stinging nettle
Bear's garlic
Tarragon
Rape seed
Shallot
Tigernut
Date
Camomille tea
Black tea
Green tea
Mung beans
Liguorice
Cane sugar
Sauerkraut
Allspice
Curry powder
Cumin
Capers
Catnip
Cow's milk, boiled
Buffalo milk
Brewer's yeast
Glutadin
Function Control

Barcode

Function Control
Negative Control
Standard 1
Standard 2
Standard 3

f145
f307
f174
f175
f55
f80
f338
f169
f166
f572
f284
f309
f150
f92
f101
f196
f194
f838
f471
f272
f316
f481
f834
f222
f96
f99
f848
f651
f964
f226
f193
s23
s2
s31
s800
s802
f198
f283
f450
f791
Function Control

Reference:
431407

Color Code:
Green - Cyan





FOOD INTOLERANCE LINE

Lists of Foods

AESKUBLOTS® Food Intolerance ONE

No.	Code	English Name	Scientific Name
1	f41	Salmon	Salmo salar
2	f3	Cod	Gadus morhua
3	f21	Herring	Clupea harengus
4	f24	Shrimp	Penaeus monodon
5	f37	Blue mussel	Mytilus edulis
6	f26	Pork	Sus scrofa domestica
7	f27	Beef	Bos primigenius f. taurus
8	f83	Chicken	Gallus gallus domesticus
9	f4	Wheat	Triticum aestivum
10	f5	Rye	Secale cereale
11	f7	Oat	Avena sativa
12	f8	Maize	Zea mays
13	f9	Rice	Oryza sativa
14	f11	Buckwheat	Fagopyrum esculentum
15	f811	Amaranth	Amaranthus caudatus
16	f31	Carrot	Daucus carota
17	f85	Celery	Apium graveolens
18	f39	Cabbage	Brassica oleracea var. capitata
19	f47	Garlic	Allium sativum
20	f48	Onion	Allium cepa
21	f12	Green pea	Pisum sativum
22	f950	Green bean	Phaseolus vulgaris
23	f14	Soy bean	Glycine max
24	f13	Peanut	Arachis hypogaea
25	f25	Tomato	Lycopersicon esculentum
26	f120	Cucumber	Cucumis sativus
27	f35	Potato	Solanum tuberosum
28	f89	Mustard	Sinapis alba
29	f1	Egg white	Gallus gallus domesticus
30	f75	Egg yolk	Gallus gallus domesticus
31	f199	Cow's milk	Bos primigenius f. taurus
32	f300	Goat's milk	Capra hircus
33	f325	Sheep's milk	Ovis aries
34	f33	Orange	Citrus sinensis
35	f29	Banana	Musa x paradisiaca
36	f49	Apple	Malus domestica
37	f84	Kiwi fruit	Actinidia deliciosa
38	f17	Hazelnut	Corylus avellana
39	f16	Walnut	Juglans regia
40	f20	Almond	Prunus amygdalus

AESKUBLOTS® Food Intolerance TWO

No.	Code	English Name	Scientific Name
1	f41	Salmon	Salmo salar
2	f3	Cod	Gadus morhua
3	f152	Plaice	Pleuronectes platessa
4	f176	Squid	Loligo spp.
5	f37	Blue mussel	Mytilus edulis
6	f819	Octopus	Octopus vulgaris
7	f26	Pork	Sus scrofa domestica
8	f27	Beef	Bos primigenius f. taurus
9	f88	Lamb	Ovis aries
10	f4	Wheat	Triticum aestivum
11	f7	Oat	Avena sativa
12	f10	Sesame	Sesamum indicum
13	f158	Spelt	Triticum aestivum ssp. spelta
14	f811	Amaranth	Amaranthus caudatus
15	f31	Carrot	Daucus carota
16	f120	Cucumber	Cucumis sativus
17	f182	Broccoli	Brassica oleracea var. italica
18	f47	Garlic	Allium sativum
19	f8	Maize	Zea mays
20	f39	Cabbage	Brassica oleracea var. capitata
21	f85	Celery	Apium graveolens
22	f827	Sweet lupine	Lupinus albus
23	f1	Egg white	Gallus gallus domesticus
24	f75	Egg yolk	Gallus gallus domesticus
25	f200	Gouda cheese	Bos primigenius f. taurus
26	f78	Casein	Bos primigenius f. taurus
27	f49	Apple	Malus domestica
28	f33	Orange	Citrus sinensis
29	f50	Grape	Vitis vinifera
30	f53	Peach	Prunus persica
31	f91	Mango	Mangifera indica
32	f20	Almond	Prunus amygdalus
33	f17	Hazelnut	Corylus avellana
34	f13	Peanut	Arachis hypogaea
35	f16	Walnut	Juglans regia
36	f818	Pistachio nut	Pistacia vera
37	f204	Cashew nut	Anacardium occidentale
38	f35	Potato	Solanum tuberosum
39	f45	Baker's yeast	Saccharomyces cerevisiae
40	f14	Soy bean	Glycine max

Lists of Foods

AESKUBLOTS® Food Intolerance THREE

No.	Code	English Name	Scientific Name
1	f40	Tuna	Thunnus albacares
2	f930	Trout	Oncorhynchus mykiss
3	f802	Pollock	Theragra chalcogramma
4	f21	Herring	Clupea harengus
5	f177	Oyster	Ostrea edulis
6	f24	Shrimp	Penaeus monodon
7	f58	Duck	Anas platyrhynchos domestica
8	f83	Chicken	Gallus gallus domesticus
9	f143	Turkey	Meleagris gallopavo
10	f5	Rye	Secale cereale
11	f11	Buckwheat	Fagopyrum esculentum
12	f6	Barley	Hordeum vulgare
13	f159	Durum wheat (Semolina)	Triticum durum
14	f164	Millet	Panicum miliaceum
15	f832	Quinoa	Chenopodium quinoa
16	f79	Gluten	Triticum aestivum
17	f25	Tomato	Lycopersicon esculentum
18	f48	Onion	Allium cepa
19	f197	Zucchini	Cucurbita pepo ssp. pepo convar. giromontina
20	f812	Green olive	Olea europaea
21	f65	Lentil	Lens culinaris
22	f12	Green pea	Pisum sativum
23	f950	Green bean	Phaseolus vulgaris
24	f199	Cow's milk	Bos primigenius f. taurus
25	f325	Sheep's milk	Ovis aries
26	f300	Goat's milk	Capra hircus
27	f29	Banana	Musa x paradisiaca
28	f84	Kiwi fruit	Actinidia deliciosa
29	f32	Lemon	Citrus limon
30	f44	Strawberry	Fragaria vesca
31	f52	Pineapple	Ananas comosus
32	f156	Sunflower seed	Helianthus annuus
33	f157	Pumpkin seed	Cucurbita pepo
34	f89	Mustard	Sinapis alba
35	s11	Sweet basil	Ocimum basilicum
36	s15	Ginger	Zingiber officinale
37	f955	Coffee	Coffea arabica
38	f97	Cacao	Theobroma cacao
39	f141	Button mushroom	Agaricus bisporus
40	f9	Rice	Oryza sativa

AESKUBLOTS® Food Intolerance FOUR

No.	Code	English Name	Scientific Name
1	f233	Carp	Cyprinus carpio
2	f171	Mackerel	Scomber scombrus
3	f231	Great crab	Cancer pagurus
4	f411	Salmon roe	Salmo salar
5	f415	Black caviar	Acipenseridae
6	f412	Lumpfish caviar	Cycloperterus lumpus
7	f804	Rabbit	Oryctolagus cuniculus
8	f167	Roe deer	Capreolus capreolus
9	f62	Cauliflower	Brassica oleracea var. botrytis
10	f189	Red cabbage	Brassica oleracea capitata
11	f952	Pumpkin	Cucurbita maxima
12	f15	White bean	Phaseolus vulgaris
13	f842	Sugar melon	Cucumis melo var. cantalupensis
14	f319	Artichoke	Cynara cardunculus
15	f188	Small radish	Raphanus sativus v. sativus
16	f163	Kohlrabi	Brassica oleracea var. gongylodes
17	f66	Leek	Allium porrum
18	f181	Avocado	Persea americana
19	f69	Horseradish	Armoracia rusticana
20	f837	Chicory	Cichorium intybus var. foliosum
21	f142	Soy milk	Glycine max
22	f201	Parmesan	Bos primigenius f. taurus
23	f94	Camembert	Bos primigenius f. taurus
24	f883	Cottage cheese	Bos primigenius f. taurus
25	f203	Goat milk cheese	Capra hircus
26	f190	Edam cheese	Bos primigenius f. taurus
27	f873	Emmental cheese	Bos primigenius f. taurus
28	f874	Gruyère cheese	Bos primigenius f. taurus
29	f876	Cream cheese	Bos primigenius f. taurus
30	f209	Raspberry	Rubus idaeus
31	f122	Plum	Prunus domestica
32	f168	Apricot	Prunus armeniaca
33	f30	Pear	Pyrus communis
34	f206	Blueberry	Vaccinium myrtillus
35	f73	Sweet cherry	Prunus avium
36	f207	Blackberry	Rubus fruticosus
37	f34	Mandarin	Citrus reticulata
38	f86	Parsley	Petroselinum crispum
39	f267	Cardamom	Elettaria cardamomum
40	s24	Rosemary	Rosmarinus officinalis



FOOD INTOLERANCE LINE

Lists of Foods

AESKUBLOTS® Food Intolerance FIVE

No.	Code	English Name	Scientific Name
1	f170	Pike	Esox lucius
2	f173	Sardine	Sardina pilchardus
3	f324	European Perch	Perca fluviatilis
4	f902	Halibut	Reinhardtius hippoglossoides
5	f867	Red deer	Cervus elaphus
6	f271	Veal	Bos primigenius f. taurus
7	f186	Fennel	Foeniculum vulgare var. azoricum
8	f288	Broad bean	Vicia faba
9	f38	Spinach	Spinacia oleracea
10	f187	Kale	Brassica oleracea var. sabellica
11	f149	Eggplant	Solanum melongena
12	f191	Beet root	Beta vulgaris var. conditiva
13	f132	Asparagus	Asparagus officinalis
14	f287	Red kidney bean	Phaseolus vulgaris
15	f310	White radish	Raphanus sativus
16	f311	Brussels sprouts	Brassica oleracea var. gemmifera
17	f947	Papaya	Carica papaya
18	f205	Yoghurt	Bos primigenius f. taurus
19	f875	Mozzarella	Bos primigenius f. taurus
20	f863	Cream	Bos primigenius f. taurus
21	f810	Curd cheese	Bos primigenius f. taurus
22	f162	Nectarine	Prunus persica var. nucipersica
23	f210	Red currant	Ribes rubrum
24	f211	Cranberry	Vaccinium macrocarpon
25	f146	Grapefruit	Citrus paradisi
26	f213	Raisin	Vitis vinifera
27	f217	Black currant	Ribes nigrum
28	f329	Water melon	Citrullus lanatus
29	f103	Pecan nut	Carya illinoensis
30	f18	Brazil nut	Bertholletia excelsa
31	f36	Coconut	Cocos nucifera
32	f216	Pine nut	Pinus pinea
33	f345	Macadamia nut	Macadamia ternifolia
34	s5	Nutmeg apple	Myristica fragrans
35	s27	Common thyme	Thymus vulgaris
36	s25	Common sage	Salvia officinalis
37	s13	Coriander seed	Coriandrum sativum
38	f98	Flax seed	Linum usitatissimum
39	f19	Sweet chestnut	Castanea sativa
40	f936	Kelp	Saccharina japonica

AESKUBLOTS® Food Intolerance SIX

No.	Code	English Name	Scientific Name
1	f803	Pikeperch	Sander lucioperca
2	f327	European catfish	Silurus glanis
3	f172	Anchovy	Engraulis encrasicolus
4	f935	Abalone	Haliotis japonica
5	f128	Grapevine snail	Helix spec.
6	f57	Goose	Anser anser domesticus
7	f212	Rhubarb	Rheum rhabarbarum
8	f304	Turnip	Brassica rapa subsp. rapa
9	f312	Rucola	Eruca sativa
10	f183	Napa cabbage	Brassica rapa ssp. pekinensis
11	f843	Chanterelle	Cantharellus cibarius
12	f846	Boletus	Boletus edulis
13	f180	Oyster mushroom	Pleurotus ostreatus
14	f844	Shiitake	Lentinula edodes
15	f306	Lime	Citrus limon
16	f850	Sea buckthorn juice	Hippophae rhamnoides
17	f943	Litchi	Litchi chinensis
18	f942	Persimmon	Diospyros kaki
19	f948	Passion fruit	Passiflora edulis
20	f491	Pomegranates	Punica granatum
21	f343	Rose hip	Rosa canina
22	f87	Honeydew melon	Cucumis melo var. inodorus
23	f124	Honey	-
24	f831	Kamut wheat	Triticum polonicum
25	f236	Cow whey	Bos primigenius f. taurus
26	f126	Peppermint	Mentha piperita
27	s12	Summer savory	Satureja hortensis
28	s3	Caraway	Carum carvi
29	s7	Black pepper	Piper nigrum
30	s14	Dill	Anethum graveolens
31	s9	Vanilla	Vanilla planifolia
32	s4	Bay leaf	Laurus nobilis
33	s8	Cinnamon	Cinnamomum verum
34	f858	Lemon balm	Melissa officinalis
35	f841	Dandelion	Taraxacum vulgare
36	s21	Clove	Syzygium aromaticum
37	f165	Poppy seed	Papaver somniferum
38	f911	Tofu	Glycine max
39	f334	Hops	Humulus lupulus
40	f90	Malt	Hordeum vulgare



Lists of Foods

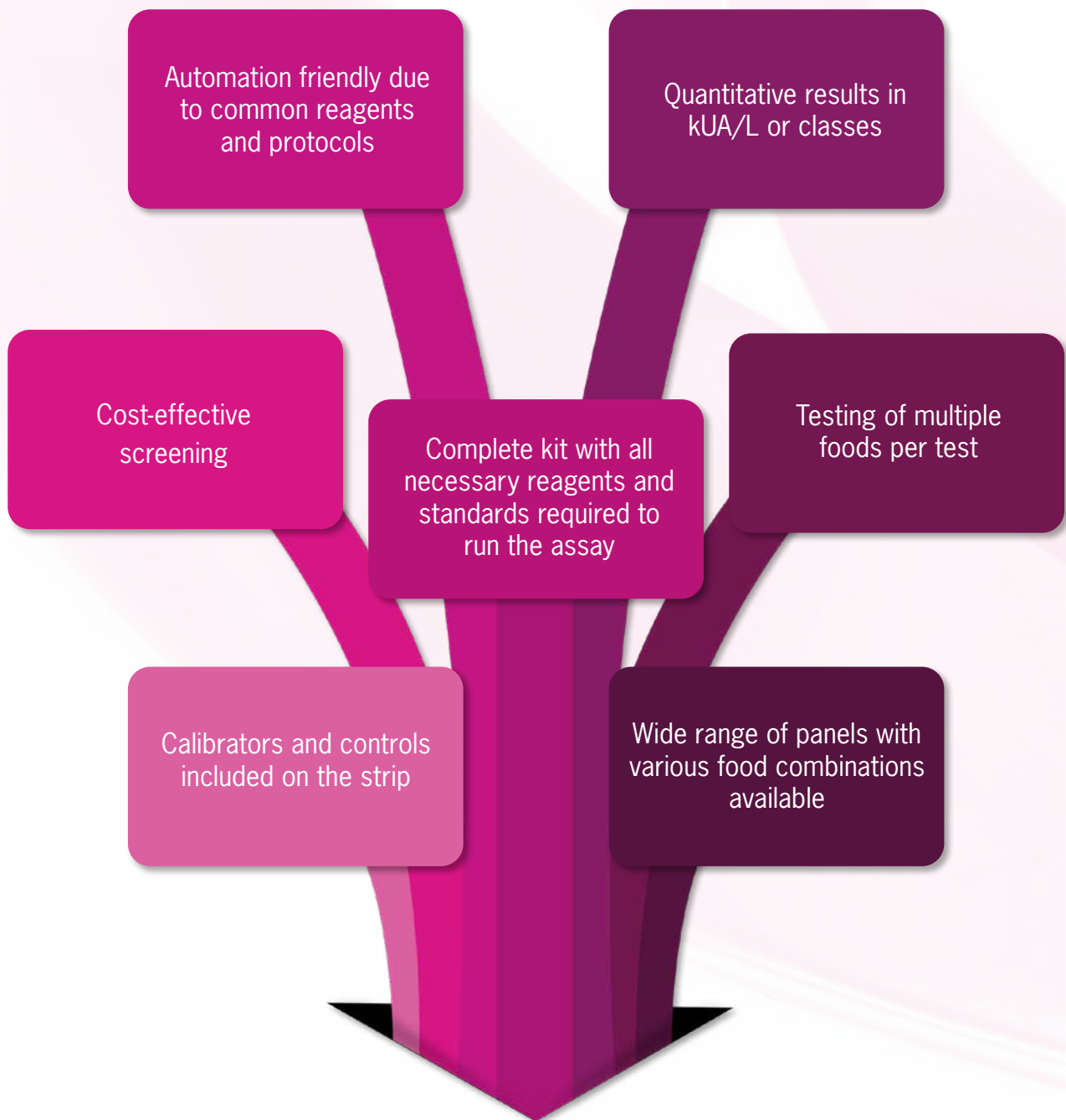
AESKUBLOTS® Food Intolerance SEVEN

No.	Code	English Name	Scientific Name
1	f145	Turbot	Scophthalmus maximus
2	f307	Hake	Merluccius capensis
3	f174	Sole	Solea solea
4	f175	Haddock	Melanogrammus aeglefinus
5	f55	Eel	Anguilla anguilla
6	f80	Lobster	Homarus gammarus
7	f338	Scallop	Pecten maximus
8	f169	Horse	Equus caballus
9	f166	Wild boar	Sus scrofa
10	f572	Quail	Coturnix coturnix
11	f284	Ostrich	Struthio camelus
12	f309	Chickpea	Cicer arietinum
13	f150	Carob	Ceratonia siliqua
14	f92	Shaddock	Citrus maxima
15	f101	Swede	Brassica napus ssp. rapifera
16	f196	Savoy cabbage	Bos primigenius f. taurus
17	f194	Lettuce	Lactuca sativa
18	f838	Stinging nettle	Urtica dioica
19	f471	Bear's garlic	Allium ursinum
20	f272	Tarragon	Artemisia dracunculoides
21	f316	Rape seed	Brassica napus
22	f481	Shallot	Allium ascalonicum
23	f834	Tigernut	Cyperus esculentus
24	f222	Date	Phoenix dactylifera
25	f96	Camomille tea	Matricaria chamomilla
26	f99	Black tea	Camellia sinensis
27	f848	Green tea	Camellia sinensis
28	f651	Mung beans	Vigna radiata
29	f964	Liquorice	Glycyrrhiza glabra
30	f226	Cane sugar	Saccharum officinarum
31	f193	Sauerkraut	Brassica oleracea conv.
32	s23	Allspice	Pimenta dioica
33	s2	Curry powder	-
34	s31	Cumin	Cuminum cyminum
35	s800	Capers	Capparis spinosa
36	s802	Catnip	Nepeta catania
37	f198	Cow's milk, boiled	Bos primigenius f. taurus
38	f283	Buffalo milk	Bubalus bubalis
39	f450	Brewer's yeast	Saccharomyces uvarum
40	f791	Gliadin	Triticum aestivum



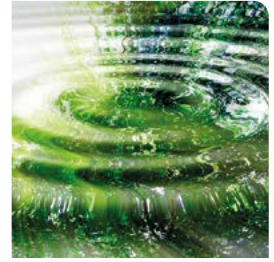
PRODUCT HIGHLIGHTS

Highlights of **AESKUBLOTS®** Line Immunoassays
specific check-up of Food Intolerances









There is a growing trend of people showing adverse reactions to different foods within their diet – generally termed as food intolerance.

Symptoms could be bloating, headache, fatigue, diarrhea, irritable bowel, and other gastroenterology and dermatology related conditions.

Increased awareness in the general population regarding health and nutrition has led to increased interest in understanding food intolerances.

Symptoms of food intolerance could be multifaceted and could appear within a few hours or even days after the consumption of the food.

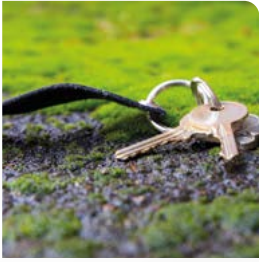
“

*To address the need for diagnosing the growing trend of food intolerances worldwide, we have developed **AESKUCARE®** Food Intolerance.*

”

This makes it difficult for the healthcare practitioner and the patient to identify the food or foods responsible for the symptoms.

Hence, there is a need for a quick diagnostic tool that can identify foods causing the adverse reaction and aid the healthcare practitioner in considering therapeutic options (e.g., a 1- or 2-month elimination diet) to alleviate the patient's symptoms.



AESKUCARE® *Food Intolerance*

FAST AND RELIABLE SCREENING





FOOD INTOLERANCE TEST PANEL

AESKUCARE® Food Intolerance

Point of Care Test for Suspected Food Intolerances*

Food intolerances are adverse, frequently delayed reactions to beverages, foods, or food additives generating discomfort in one or more body areas. Since several food groups may be implicated in the same individual, it can be a challenging task to identify the offending food. With the **AESKUCARE®** Food Intolerance rapid test, the Healthcare Practitioner or lab can quickly offer advice on alleviating the symptoms.

* This test is used to determine specific IgG₄ to support diagnosing patients suspected of having food intolerances.

- 30-minute rapid food intolerance test
- Test kit includes all necessary equipment (test device, blood sampling kit, test reagents, etc.)
- Hygienic – blood sample and reagents are retained within the device
- Suitable for both adults and children (over the age of 5)
- Only 50µl of capillary blood are needed
- Healthcare practitioners and nutritionists can test their patients during consultation, no waiting for laboratory test results
- Results read with the naked eye



AESKUCARE® Food Intolerance delivers test results at an unparalleled speed and precision.

Ref No.	Product Name	Format	Foods
AESKUCARE® FOOD INTOLERANCE			
830101	Food Intolerance ONE	1 test 57 foods	f4, f5, f6, f7, fx87 (f11, f811, f832), fx602 (f8, f9), f35, f14, fx451 (f45, f450), f79, f13, f17, f20, f29, fx88 (f32, f33), fx90 (f44, f50, f53), f49, f52, f84, f97, f1, f75, f78, f199, f300, f325, f3, fx97 (f41, f930), f40, fx81 (f24, f176, f819), f25, fx144 (f12, f950), fx98 (f31, f85), fx99 (f39, f182), fx96 (f47, f48, f66), f88, fx91 (f26, f27), fx92 (f83, f143), f955, f89



AESKUCARE®

Food Intolerance

Food intolerance test results should always be interpreted by a trained healthcare practitioner along with the patient's medical history. Based on the results, foods should not be completely and permanently eliminated from the diet.

A temporary elimination diet for 1 to 2 months (as prescribed by a trained healthcare practitioner) followed by slow "reintroduction" of food into the diet and re-testing with **AESKUCARE®** is recommended.

Testing for slgG_4 may not necessarily reflect a reaction to the food itself but may be an indirect indicator of intestinal permeability (i.e., leaky gut). An exclusion diet based on slgG_4 antibody testing has been shown to improve symptoms in patients suffering from Irritable Bowel Syndrome.

At times, there is also an overlap of food allergy with food intolerance. However, it has to be noted that food intolerance is usually due to our body's inability to process the food and its compounds whereas food allergy is the IgE-mediated immune system reaction to allergens/proteins within the food.



FOOD INTOLERANCE TEST PANEL

GRAINS	Wheat, Rye, Barley, Oat, Gluten	Grain mix A (Buckwheat, Amaranth, Goosefoot) Grain mix B (Corn, Rice)
NUTS	Peanut, Hazelnut, Almond	
FRUITS	Banana, Apple, Pineapple, Kiwi fruit	Fruit mix A (Lemon, Orange) Fruit mix B (Strawberry, Grape, Peach)
EGG	Egg white, Egg yolk	
MILK	Casein, Cow's milk, Goat's milk, Sheep's milk	
SEAFOOD	Cod, Tuna	Fish mix (Salmon, Trout) Seafood mix (Shrimp, Squid, Octopus)
VEGETABLES	Tomato	Legume mix (Green pea, Green bean) Vegetable mix A (Carrot, Celery) Vegetable mix B (Cabbage, Broccoli) Leek/Onion mix (Garlic, Onion, Leek)
MEAT	Lamb/Mutton	Meat mix A (Pork, Beef) Meat mix B (Chicken, Turkey)
OTHERS	Potato, Soy, Cacao, Coffee, Mustard	Yeast Mix (Baker's yeast, Brewer's yeast)

Correlation between **AESKUCARE®** levels and food specific IgG₄ concentrations

AESKUCARE® - Level	slgG₄ Concentration	Reading the AESKUCARE® results
1	low	Signal intensity less than the standard 
2*	moderate	Signal intensity approximately the same as the standard 
3*	high	Signal intensity greater than the standard 

*Corresponds to a moderate or high slgG₄ level. These results are regarded as clinically relevant if they correlate with the medical history and symptoms.

Lists of Foods

AESKUCARE® Food Intolerance ONE

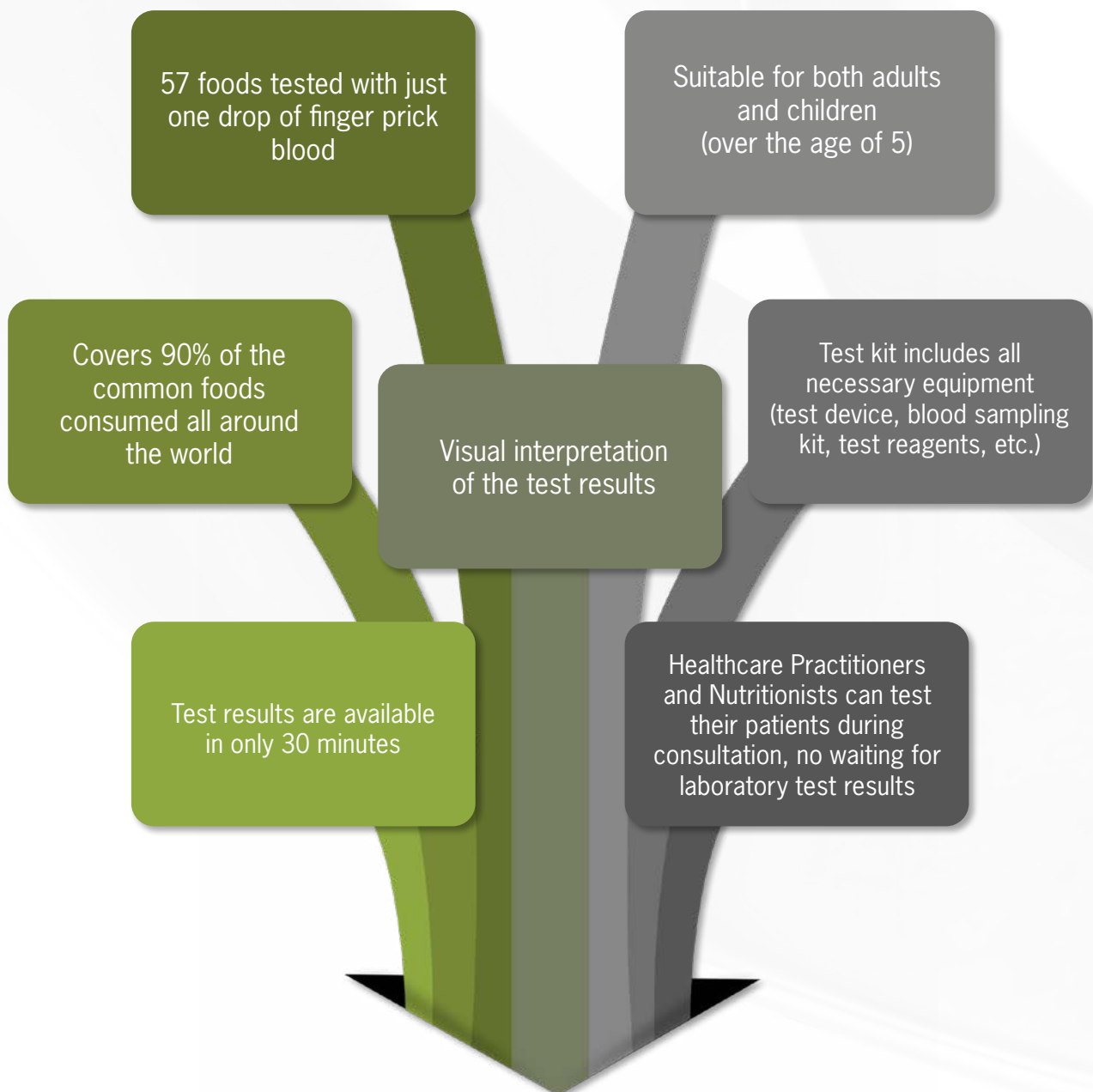
No.	Code	English	Scientific Name
1	f4	Wheat	Triticum aestivum
2	f5	Rye	Secale cereale
3	f6	Barley	Hordeum vulgare
4	f7	Oat	Avena sativa
5	fx87 (f11) (f811) (f832)	Grain mix 1: (Buckwheat) (Amaranth) (Quinoa)	(Fagopyrum esculentum) (Amaranthus caudatus) (Chenopodium quinoa)
6	fx602 (f8) (f9)	Grain mix 2: (Corn) (Rice)	(Zea mays) (Oryza sativa)
7	f35	Potato	Solanum tuberosum
8	f14	Soy bean	Glycine max
9	fx451 (f45) (f450)	Yeast mix: (Baker's yeast) (Brewer's yeast)	(Saccharomyces cerevisiae) (Saccharomyces uvarum)
10	f79	Gluten	Triticum aestivum
11	f13	Peanut	Arachis hypogaea
12	f17	Hazelnut	Corylus avellana
13	f20	Almond	Prunus amygdalus
14	f29	Banana	Musa x paradisiaca
15	fx88 (f32) (f33)	Fruit mix 1: (Lemon) (Orange)	(Citrus limon) (Citrus sinensis)
16	fx90 (f44) (f50) (f53)	Fruit mix 2: (Strawberry) (Grape) (Peach)	(Fragaria vesca) (Vitis vinifera) (Prunus persica)
17	f49	Apple	Malus domestica
18	f52	Pineapple	Ananas comosus
19	f84	Kiwi fruit	Actinidia deliciosa
20	f97	Cacao	Theobroma cacao
21	f1	Egg white	Gallus gallus domesticus
22	f75	Egg yolk	Gallus gallus domesticus
23	f78	Casein	Bos primigenius f. taurus
24	f199	Cow's milk	Bos primigenius f. taurus
25	f300	Goat milk	Capra hircus
26	f325	Sheeps milk	Ovis aries
27	f3	Cod	Gadus morhua
28	fx97 (f41) (f930)	Fish mix: (Salmon) (Trout)	(Salmo salar) (Oncorhynchus mykiss)
29	f40	Tuna	Thunnus albacares
30	fx81 (f24) (f176) (f819)	Seafood mix: (Shrimp) (Squid) (Octopus)	(Penaeus monodon) (Loligo spp.) (Octopus vulgaris)
31	f25	Tomato	Lycopersicon esculentum
32	fx144 (f12) (f950)	Legume mix: (Green pea) (Green bean)	(Pisum sativum) (Phaseolus vulgaris)
33	fx98 (f31) (f85)	Vegetable mix 1: (Carrot) (Celery)	(Daucus carota) (Apium graveolens)

No.	Code	English	Scientific Name
34	fx99 (f39) (f182)	Vegetable mix 2: (Cabbage) (Broccoli)	(Brassica oleracea var. capitata) (Brassica oleracea var. italica)
35	fx96 (f47) (f48) (f66)	Leek/onion mix: (Garlic) (Onion) (Leek)	(Allium sativum) (Allium cepa) (Allium porrum)
36	f88	Lamb	Ovis aries
37	fx91 (f26) (f27)	Meat mix 1: (Pork) (Beef)	(Sus scrofa domestica) (Bos primigenius f. taurus)
38	fx92 (f83) (f143)	Meat mix 2: (Chicken) (Turkey)	(Gallus gallus domesticus) (Meleagris gallopavo)
39	f955	Coffee	Coffea arabica
40	f89	Mustard	Sinapis alba



PRODUCT HIGHLIGHTS

Highlights of **AESKUCARE®** food intolerance test



IMPRINT

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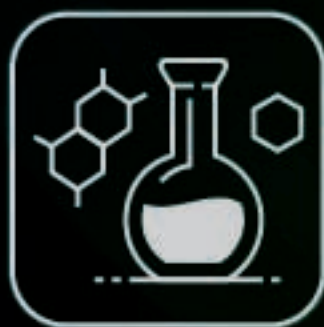
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