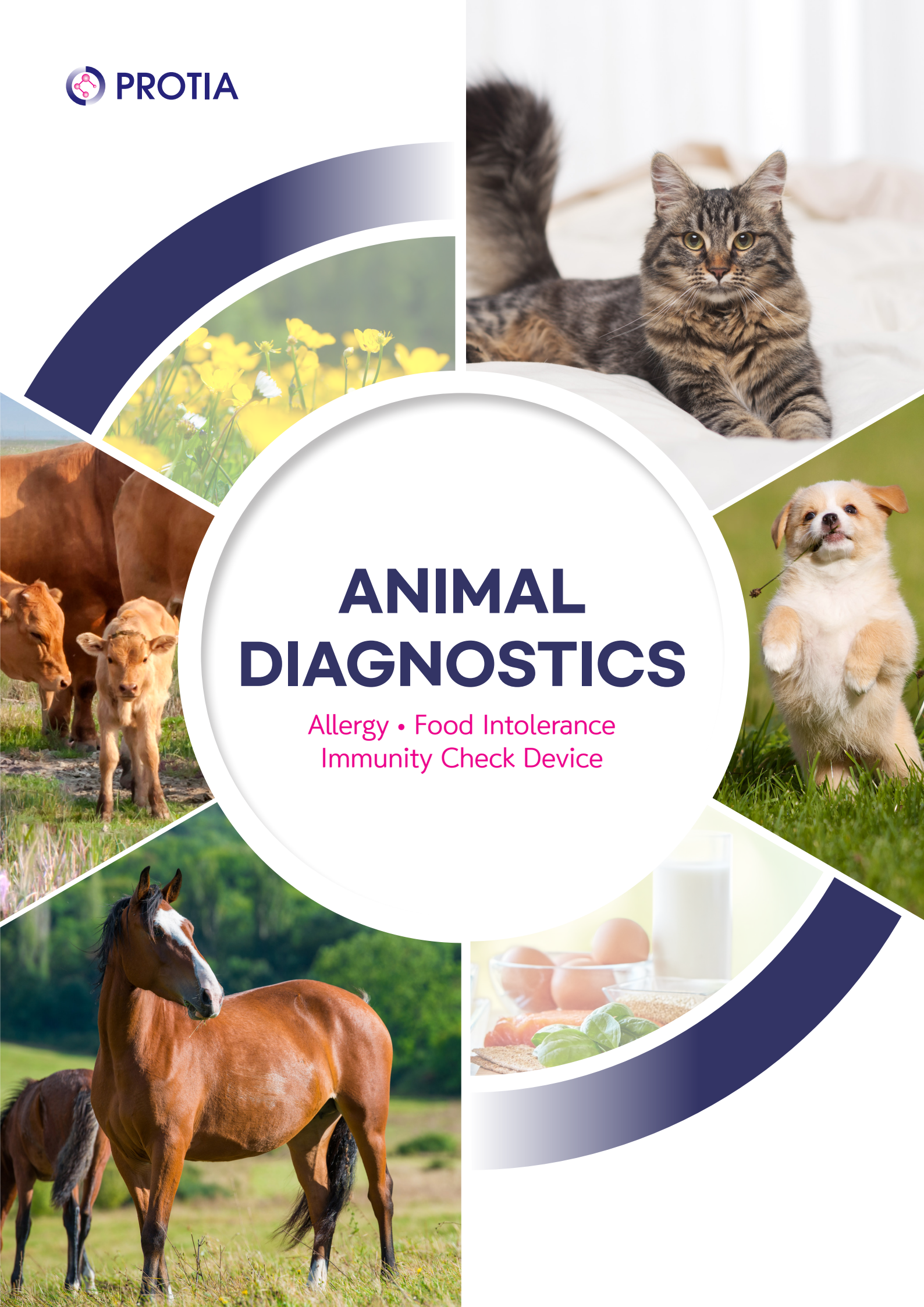


ANIMAL DIAGNOSTICS

Allergy • Food Intolerance
Immunity Check Device





ANITIA
Canine IgE



Small sample volume

Requires only 50 μ L of serum for more than 60 allergens



Quantitative detection

Provides concentration of specific IgE with allergy classification



Great performance

Reproducible principle by using line blot immunoassay and on-strip calibration

Allergy Test for Dog



64 Allergens on panel



ANITIA Canine IgE I

Mite	<i>Dermatophagoides pteronyssinus</i>	Animal	Cat epithelium & dander	Food	Rice
	<i>Dermatophagoides farinae</i>		Wool, sheep		Pea
	<i>Acarus siro</i>		Feather mix		Soy bean
	<i>Tyrophagus putrescentiae</i>		<i>Penicillium notatum</i>		Carrot
Tree	Alder/ Birch	Mold	<i>Cladosporium herbarum</i>		Potato
	Hazel		<i>Aspergillus fumigatus</i>		Sweet potato
	Maple leaf sycamore		<i>Candida albicans</i>		Pumpkin
	Willow/ Cottonwood		<i>Alternaria alternata</i>		Tomato
	Oak	Insect	<i>Malassezia pachydermatis</i>		Apple
	White pine		Flea		Yeast, Baker's
	Acacia		Cockroach		Egg white
	White ash		Pork		Egg yolk
Weed	Common ragweed	Food	Beef		Milk
	Plantain		Duck meat		Cheddar/ Gouda cheese
	Mugwort		Chicken		Crab/ Shrimp
	Sheep's sorrel		Lamb meat		Codfish
	Bermuda grass		Turkey meat		Tuna
Grass	Orchard/ Timothy grass		Red deer		Salmon
	Ryegrass		Wheat		Mackerel
	Cultivated rye		Corn		Peanut

61 Allergens on panel



ANITIA Canine IgE II

etc.	House dust	etc.	Silkworm pupa	Food	Linseed (Flax seed)
Mite	<i>Glycyphagus domesticus</i>	Weed etc.	α -lactalbumin		Orange
	<i>Blomia tropicalis</i>		β -lactoglobulin		Strawberry
Food	Japanese hop	Grass	Casein		Blueberry
	CCD		Buttermilk		Kiwi
Tree	Peach		Gluten		Melon
	Sweet vernal grass		Yeast, Brewer's		Mango
	Common reed grass	Food	Rabbit		Banana
	Bent grass		Blue mussel/ Clam		Pear
Weed	Japanese cedar		Trout		Pineapple
	Ox-eye daisy	Insect	Herring		Plum
	Dandelion		Sardine		Watermelon
	Russian thistle		Anchovy		Parsley
Animal	Goldenrod	Food	Sea bass		Cabbage
	Common pigweed		Barley		Cucumber
	Hevea latex		Oat		Broccoli
	Bee venom		Buckwheat		Cauliflower
Food	Fire ant	Food	Millet		Radish
	Mosquito		Lentil		Paprika
	Cattle epithelium		Sweet chestnut		Spinach



Allergy Test for Cat



Small sample volume

Requires only 50 µL of serum for more than 60 allergens



Quantitative detection

Provides concentration of specific IgE with allergy classification



Great performance

Reproducible principle by using line blot immunoassay and on-strip calibration



64 Allergens on panel

61 Allergens on panel

ANITIA Feline IgE I

ANITIA Feline IgE II

Mite	<i>Dermatophagoides pteronyssinus</i>	Animal	Dog dander	Rice
	<i>Dermatophagoides farinae</i>	Animal	Wool, sheep	Pea
	<i>Acarus siro</i>	Animal	Feather mix	Soy bean
	<i>Tyrophagus putrescentiae</i>		<i>Penicillium notatum</i>	Carrot
Tree	Alder/ Birch	Mold	<i>Cladosporium herbarum</i>	Potato
	Hazel		<i>Aspergillus fumigatus</i>	Sweet potato
	Maple leaf sycamore		<i>Candida albicans</i>	Pumpkin
	Willow/ Cottonwood		<i>Alternaria alternata</i>	Tomato
	Oak	Insect	<i>Malassezia pachydermatis</i>	Food Apple
	White pine		Flea	Yeast, Baker's
	Acacia		Cockroach	Egg white
	White ash		Pork	Egg yolk
Weed	Common ragweed	Food	Beef	Milk
	Plantain		Duck meat	Cheddar/ Gouda cheese
	Mugwort		Chicken	Crab/ Shrimp
	Sheep's sorrel		Lamb meat	Codfish
Grass	Bermuda grass		Turkey meat	Tuna
	Orchard/ Timothy grass		Red deer	Salmon
	Ryegrass		Wheat	Mackerel
	Cultivated rye		Corn	Peanut

etc.	House dust	etc.	Silkworm pupa	Linseed (Flax seed)
Mite	<i>Glycyphagus domesticus</i>		α-lactalbumin	Orange
	<i>Blomia tropicalis</i>		β-lactoglobulin	Strawberry
Weed	Japanese hop		Casein	Blueberry
etc.	CCD		Buttermilk	Kiwi
Food	Peach		Gluten	Melon
	Sweet vernal grass		Yeast, Brewer's	Mango
	Common reed grass		Rabbit	Banana
Grass	Bent grass		Blue mussel/ Clam	Pear
	Japanese cedar	Food	Trout	Food Pineapple
Tree	Ox-eye daisy		Herring	Plum
	Dandelion		Sardine	Watermelon
Weed	Russian thistle		Anchovy	Parsley
	Goldenrod		Sea bass	Cabbage
	Common pigweed		Barley	Cucumber
	Hevea latex		Oat	Broccoli
Insect	Bee venom		Buckwheat	Cauliflower
	Fire ant		Millet	Radish
	Mosquito		Lentil	Paprika
Animal	Cattle epithelium		Sweet chestnut	Spinach



Allergy Test for Horse



Small sample volume

Requires only 50 μ L of serum for more than 60 Allergens



Quantitative detection

Provides concentration of specific IgE with allergy classification



Great performance

Reproducible principle by using line blot immunoassay and on-strip calibration



60 Allergens on panel

ANITIA Equine IgE I

Fungi	<i>Penicillium notatum</i>	Dandelion	Cultivated rye
	<i>Cladosporium herbarum</i>	Plantain	Cultivated oat
	<i>Aspergillus fumigatus</i>	Lamb's quarters	Cultivated wheat
	<i>Alternaria alternata</i>	Russian thistle	Cultivated corn
Trees	Alder	Common pigweed	Barley
	Birch	Sheep's sorrel	Soybean
	Hazel	Nettle	Horse fly
	Beech	Alfalfa	House fly
	Oak	Red clover	Black fly
	Elm	CCD	Cockroach, German
	Olive	Sweet vernal grass	Mosquito
	Maple leaf sycamore	Bermuda grass	Biting midge
	Willow	Orchard grass	<i>Dermatophagoides pteronyssinus</i>
	Cottonwood	Meadow fescue	<i>Dermatophagoides farinae</i>
Weeds	White ash	Ryegrass	<i>Blomia tropicalis</i>
	White pine	Timothy grass	<i>Acarus siro</i>
	Cypress	Kentucky bluegrass	<i>Lepidoglyphus destructor</i>
	Privet	Bent grass	<i>Tyrophagus putrescentiae</i>
	Common ragweed	Johnson grass	Cat
	Mugwort	Bahia grass	Dog

60 Allergens on panel

ANITIA Equine IgE II

Trees	Box elder maple	Wall pellitory	Yellow jacket venom
	Walnut tree	Dog fennel	Paper wasp venom
	Japanese cedar	Rapeseed	Fire ant
	Eucalyptus	Brome grass	Black ant
	Acacia	Cattle	Cockroach, American
	Mesquite	Guinea pig	Flea
	Melaleuca	Mouse	<i>Glycophagus domesticus</i>
	Pecan tree	Rabbit	<i>Mucor racemosus</i>
	White hickory	Feather mix	<i>Candida albicans</i>
	Hackberry	Rice	<i>Bipolaris</i>
Weeds	Mulberry	Buckwheat	<i>Stemphylium herbarum</i>
	Queen palm	Pea	<i>Rhizopus nigricans</i>
	Horse chestnut	Peanut	<i>Epicoccum purpurascens</i>
	Sweet gum	Carrot	<i>Curvularia lunata</i>
	Ox-eye daisy	Apple	<i>Cephalosporium acremonium</i>
	Goldenrod	Millet	<i>Aspergillus niger</i>
	Cocklebur	Sugar beet	<i>Malassezia</i>
	Scale	Lentil	<i>Rhodotorula mucilaginosa</i>
	Rough marsh elder	Linseed	Latex
	Firebush	Bee venom	Sunflower



ANITIA Canine/ Feline Food Intolerance Test



If your pet has **abnormal symptoms** that can not figure out the cause, you should consider “**Food Intolerance**”

Diarrhea

Excessive Itching

Persistent Flatulence

Patches of Missing Hair

Tiredness & Lethargy



Comparison Between Food Intolerance and Allergy



Food Intolerance

Response after
2 ~ 72hrs of food intake

↓
Inflammatory reaction of
IgG against Specific food allergens

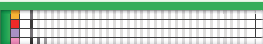
Allergy

Immediate reaction
& Anaphylaxis Shock

↓
Histamine reaction of
IgE against food allergens



122 Food allergens on panel



ANITIA Canine/Feline
Food Intolerance Test 128

Brazil nut	Sweet potato	Goat milk
Macadamia nut	Pumpkin	α -lactalbumin
Cashew nut	Paprika	β -lactoglobulin
Flax seed	Radish	Casein
Red kidney bean	Parsley	Cheese
Lentil	Cauliflower	Buttermilk
Chick pea	Zucchini	Yogurt
Gluten	Chicory	Rabbit meat
Oat	Sugar beet	Turkey meat
Common millet	Green bean	Duck meat
Foxtail millet	Olive fruit	Red deer
Octopus	Apricot	Ostrich
Sardine	Avocado	Goat
Herring	Blueberry	Quail
Sea bass	Cherry	Kangaroo
Alaska pollock	Lemon	Goose
Mustard	Melon	Horse meat
Lettuce	Pear	Silkworm pupa
Cabbage	Pineapple	Honey
Spinach	Plum	Yeast, Brewer's
Broccoli	Watermelon	

60 Food allergens on panel



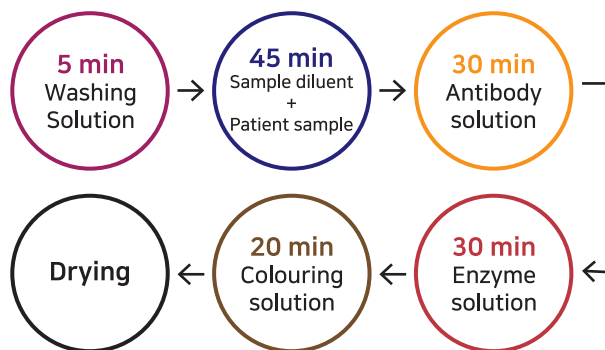
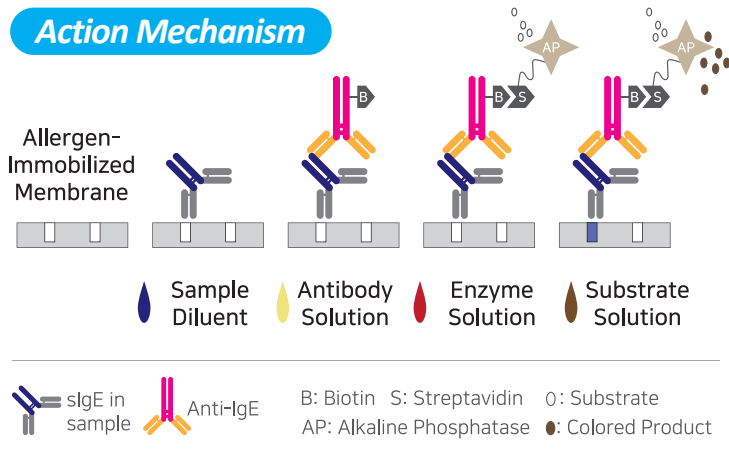
ANITIA Canine/Feline
Food Intolerance Test

Almond	Mackerel	Pork
Hazel nut	Salmon	Carrot
Pine nut	Tuna	Celery
Sesame	Plaice	Mushroom
Cacao	Anchovy	Potato
Sweet chestnut	Trout	Cucumber
Pea	Oyster	Garlic
Soybean	Scallop	Onion
Peanut	Clam	Tomato
Walnut	Blue mussel	Eggplant
Pistachio	Lobster	Apple
Sunflower	Pacific squid	Banana
Corn	Crab	Coconut
Rye	Shrimp	Grape
Buckwheat	Egg yolk	Peach
Barley	Egg white	Strawberry
Rice	Milk	Orange
Wheat	Lamb meat	Mango
Eel	Beef	Kiwi
Codfish	Chicken	Yeast, Baker's

* ANITIA Canine/Feline Food Intolerance Test 128 is an extended version of the original model, adding 62 additional allergens.

Test Principle & Equipment

Action Mechanism



Test Report & Equipment Overview

PROTIA Inc. Report ANITIA				
ANITIA Canine IgE 1				
Sample-ID: 12 Clinic Name: Protia animal clinic Pet Name: Brie Age: 8 Breed: Mixed Sex: Female				
Envelope#: 1 Lot#: 1 Custom2: 1 Date of evaluation: 2024-05-09				
No	Name	Code	AU/mL	Class
1	D. pteronyssinus	d1	15.01	2
2	D. farinae	d2	<0.15	0
3	Acarus siro	d70	<0.15	0
4	T. putrescentiae	d72	>100	3
5	Alder/Birch	t2/t3	<0.15	0
6	Hazel	t4	<0.15	0
7	Maple leaf	t11	0.2	0
8	Willow/Cottonwood	t12/t14	<0.15	0
9	Oak	t7	<0.15	0
10	White pine	t16	<0.15	0
11	Acacia	t19	0.22	0
12	White ash	t15	0.28	0
13	Common ragweed	w1	<0.15	0
14	Plantain	w9	<0.15	0
15	Mugwort	w6	0.85	1
16	Sheep's sorrel	w18	<0.15	0
17	Bermuda grass	g2	<0.15	0
18	Orchard/Timothy	g3/g6	<0.15	0
19	Ryegrass	g5	<0.15	0
20	Cultivated rye	g12	<0.15	0
21	Cat or Dog	e1	0.5	1
22	Wool, sheep	e81	0.49	1
23	Feather mix	ex1	0.49	1
24	P. notatum	m1	1.29	0
25	C. herbarum	m2	0.25	0
26	A. fumigatus	m3	0.32	0
27	Candida albicans	m5	<0.15	0
28	A. alternata	m6	1.17	1
29	M. pachydermatis	m227	<0.15	0
30	Flea	B22	<0.15	0
No	Name	Code	AU/mL	Class
31	Cockroach	i6	0.46	1
32	Pork	f26	<0.15	0
33	Beef	f27	<0.15	0
34	Duck meat	f581	<0.15	0
35	Chicken	f83	<0.15	0
36	Lamb meat	f88	0.53	1
37	Turkey meat	f284	<0.15	0
38	Red deer	f867	0.46	1
39	Wheat	f4	0.17	0
40	Corn	f8	<0.15	0
41	Rice	f9	<0.15	0
42	Pea	f12	<0.15	0
43	Soy bean	f14	<0.15	0
44	Carrot	f31	<0.15	0
45	Potato	f35	<0.15	0
46	Sweet potato	f54	<0.15	0
47	Pumpkin	f225	<0.15	0
48	Tomato	f25	<0.15	0
49	Apple	f49	<0.15	0
50	Yeast, baker's	f45	<0.15	0
51	Egg white	f1	2.21	0
52	Egg yolk	f75	<0.15	1
53	Milk	f2	<0.15	0
54	Cheddar/Gouda	f81	<0.15	0
55	Crab/Shrimp	f23/f24	<0.15	0
56	Codfish	f3	<0.15	0
57	Tuna	f40	<0.15	0
58	Salmon	f41	<0.15	0
59	Mackerel	f206	<0.15	0
60	Peanut	f13	<0.15	0

RANGE OF INTERPRETATION		
AU/mL	Class	Amount of allergen-specific IgE
≤0.34	0	Not Found
0.35-3.49	1	Low
3.50-49.99	2	Moderate
≥50.00	3	High

Remark

Memo

- Type of test
- Pet's information
- Analyst's comments
- Allergen information
- Photo of the test panel
- IgE concentration (AU/mL, class)
- Interpretation of the class (Classification of specific IgE concentration)

Equipment



Q-STATION ELITE

Fully automatic system

- 40 ~ 48 tests in one process
- Testing different panels at once



Q-Processor

Automatic processor

- Integrated PC
- 10 tests in one process



Q-Smart

Data analysis reader

- Multiple language available
- 10 tests in one process
- Compact size & Light weight



AniCheck Bovine/ Equine IgG

POC tests for Immune Health



Quantitative Detection

Quantitative or Semi-Quantitative measurement of IgG level



Fast result

Get the result in 15 minutes



No need of lab test

Prevent FPT (Failure of Passive Transfer)
on-site IgG test for cows and horses



IgG Concentration

Deficient

Sufficient

Save your animals with a simple test! Check total IgG in Colostrum & Blood

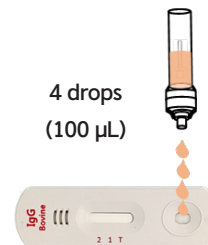
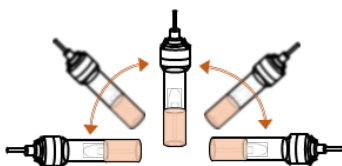
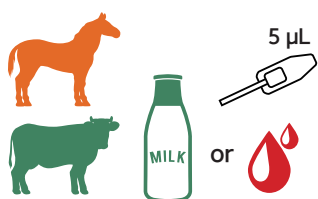


AniCheck Bovine IgG



AniCheck Equine IgG

Test Procedure



15 min



Q-Smart

or

AniCheck	Bovine IgG						Reference Chart
Control line (C2)							
Control line (C1)							
Test line (T)							
IgG Concentration [mg/ml]	2	5	10	20	35	60	120
Under 5 mg/ml	$C2 \geq 1$ (The color of the T is greater than or equal to that of the C2)						
5 – 35 mg/ml	$C1 \leq T < C2$ (The color of the T is greater than or equal to that of the C1 and weaker than C2)						
Over 35 mg/ml	$T < C1$ (The color of the T is weaker than C1)						

 LOT : BIG19001

PROTIA

LOT : BIG19001

1. Use a capillary tube to collect 5 μ L of colostrum or blood.
2. Place the colostrum or blood-filled capillary tube into the bottle containing developing solution.
3. Shake the bottle to mix colostrum or blood and the developing solution.
4. Add 4 drops (100 μ L) of mixed solution into the sample inlet.
5. Wait for 15 minutes for the result.

Innovative Technology & Novel Diagnostics



PROTIA



PROTIA

A-702, 401, Yangcheon-Ro, Gangseo-Gu, Seoul 07528, Republic of Korea

Tel: +82-2-6968-5288

Website: www.protia.co.kr

E-mail: protia@protia.co.kr

