



For Veterinary Use Only

Asan Easy Test<sup>®</sup> Canine IgE

Canine Allergy reference Test

Immunochromatography



### EXPLANATION OF THE TEST

The immune response, which normally protects the dog against infection and disease, can actually be harmful to the body. The immune reactions involved in allergies are quite complex. Most reactions involve an antibody in the blood called Immunoglobulin E (IgE). In an allergic reaction the allergen protein molecules combine with IgE antibody molecules and attach to a type of cell called mast cell, found in many tissues throughout the body. When these cells are attached to the allergen, they break up and release potent chemicals such as histamines that cause local inflammation (redness, swelling and itching). This inflammation causes the various signs associated with an allergic reaction. Therefore, Canine IgE titers are very important for health prediction in dog.

#### [Intend to use]

Asan Easy Test<sup>®</sup> Canine IgE is a chromatographic immunoassay kit for rapid detection of Canine IgE in serum or plasma from dog.

#### [Principle]

A nitrocellulose membrane is immobilized with anti-dog IgE polyclonal antibody and anti-mouse IgG monoclonal antibody in the test line and control line, respectively. Another anti-dog IgE monoclonal antibody is conjugated to colloidal gold particles. This conjugate is placed on a polyester pad as a conjugate pad. This test aimed to the detection of Canine IgE in serum/plasma. When the device is loaded with specimens, the solubilized conjugated migrates with the sample by passive diffusion and anti-dog IgE gold conjugate and canine IgE in the sample are firstly reacted. Then, the complex comes into contact with the anti-dog IgE that it absorbed onto the nitrocellulose. The result is visible within 15~20 minutes in the form of a red or purple line in the test line (T) region of the device. The solution continues to migrate to encounter anti-mouse IgG, thereby producing a second red line on the control line (C) area.

### MATERIALS PROVIDED

Asan Easy Test<sup>®</sup> Canine IgE contains following components:

1. Test devices individually foil-pouched with a desiccant : 10ea
2. Disposable dropper : 10ea
3. Disposable 10 $\mu$ l capillary tube : 10ea
4. Assay solution in tube : 10ea
5. Instruction manual for use : 10ea
6. EasyTest Color Index : 1ea

### PRECAUTIONS

1. The presence of humidity may decrease the stability of the reagents. Thus, please carry out the test immediately after removing the device from the foil pouch.
2. Do not use the kit after the expiration date and do not freeze the kit.
3. For veterinary use only.
4. Wear protective gloves while handling samples and wash hands thoroughly after the test.
5. Dispose all the specimens and kit properly after test, in accordance with GLP.
6. Never use reagent from another kits and do not reuse the test kit.

### SPECIMEN COLLECTION AND STORAGE

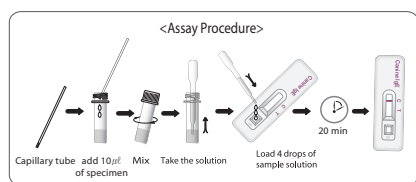
1. Serum and plasma from dogs may be used in this kit.
2. All specimens should be handled as being potentially infectious.
3. Serum specimens should be used immediately, if possible or may be stored at 2~8 $^{\circ}$ C up to three days.
4. Serum specimen can make the better results.
5. Contaminated or precipitation in blood specimen may yield incorrect or inconsistent results.
6. Hemolytic, lipaemic, icteric specimen should be avoided. They can occur erroneous results.

### TEST PROCEDURE

1. Place all specimens, test devices, and allow them to room temperature prior to testing (15~30 min).
2. Remove the test device from the sealed pouch and place it on a clean and plain place.
3. Using the capillary tube provided in the kit, add 10  $\mu$ l of specimen into a tube containing assay buffer.
4. Gently stir the mixture solution with the capillary

tube to make sure the suitable mixing of specimen with assay buffer, and then remove the capillary tube.

5. Take the specimen with the disposable dropper provided in the kit and load 4 drops of specimen into the test device.
6. Interpret the test results at 20 minutes. Do not interpret after 25 minutes.



### INTERPRETATION OF THE TEST

#### [Using EasyTest Color Index]

1. Compare the band color from test line with EasyTest Color Index.
2. Read the color score of the band.
3. Interpret the result with the below Interpretation Table.

Interpretation Table For EasyTest Color Index

Color Score	EasyTest Color Index	Interpretation	Concentration ( $\mu$ g/ml)	EasyScan Score
0	No band or trace	Negative	<2.5	0~25
		""	2.5~10	26~80
1-1		Weak positive	10.1~20	81~100
1-2		Positive	20.1~40	101~170
2-1		""	40.1~100	171~230
2-2		Strong positive	100.1~150	231~300
3-1		""	150.1~200	301~365
3-2		Very strong positive	200.1~250	366~445
4-1		""	250.1~300	446~525
4-2		""	>300.1	>526

#### [Using EasyScan Reader]

1. Turn on the EasyScan Reader.
2. Put in and out the test cassette with a proper orientation.
3. Read the EasyScan score from the window of the reader.
4. Interpret the result with the below Interpretation Table.

Interpretation Table for EasyScan

EasyScan Score	Interpretation	Concentration ( $\mu$ g/ml)
0~25	Negative	<2.5
26~80	""	2.5~10
81~100	""	10.1~20
101~170	Weak positive	20.1~40
171~230	Positive	40.1~100
231~300	""	100.1~150
301~365	Strong positive	150.1~200
366~445	""	200.1~250
446~525	Very strong positive	250.1~300
>526	""	>300.1

### STORAGE & EXPIRATION

1. Asan Easy Test<sup>®</sup> Canine IgE should be stored between 1 to 30 $^{\circ}$ C (33.8~86 $^{\circ}$ F)
2. Expiration date of this kit is 24 months after its manufacture date.

### LIMITATIONS OF THE TEST

Asan Easy Test<sup>®</sup> Canine IgE is designed for primary screening test of Canine IgE in the Canine serum/plasma. This kit can provide fast and easy way to get a result, but do not completely exclude the possibility of false positive or false negative result caused by various factors. So, refer to the result of this kit, please make a final decision with clinical manifestation, other test results, and veterinarian's view, collectively.



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