One-step Canine Parvovirus Antigen and Canine Coronavirus Antigen Test

For veterinary diagnostic use only

Anigen Rapid CPV/CCV Ag Test Kit

■ Principles

The **Anigen Rapid CPV/CCV Ag Test Kit** is a chromatographic immunoassay for the qualitative detection of Canine Parvovirus antigen and Coronavirus antigen in canine feces.

The **Anigen Rapid CPV/CCV Ag Test Kit** has has two letters which are test line (T) and control line (C) on the surface of the device. The test line and control line in the result window are not visible before applying any samples. The control line is a reference line which indicates the test is performing properly. It has to appear every time when the test has performed. If the Canine Parvovirus(CPV) antigen and/or Canine Coronavirus(CCV) antigen is(are) present in the sample, a purple test line would appear in the result window.

The highly selective CPV antibodies and CCV antibodies are used as capture and detector materials. These are capable of detecting CPV antigen and CCV antigen in canine sample with high accuracy.

■ Materials provided

Materials	10 Tests/Kit
Anigen Rapid CPV/CCV Ag Test Device	10
Assay diluents tube	10
Disposable swab	10
Disposable dropper	10
Instructions for use	1

■ Materials required, but not provided

1) Timer

■ Precautions

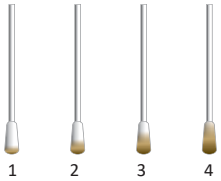
1) The test kit is for canine use only. Do not use for other animals.
2) The test device is sensitive to humidity as well as heat. Perform the test immediately after removing the test device from the foil pouch.
3) Do not reuse test components.
4) Apply the sample vertically.
5) Do not touch the membrane in the result window of test device.
6) Do not use the test kit beyond the stated expiration date marked on the label.
7) Do not use the test kit if the pouch is damaged or the seal is broken.
8) Do not mix components from different lot numbers because the components in this kit have been quality control tested as standard batch unit.
9) All samples should be handled as being potentially infectious. Wear protective gloves while handling samples. Wash hands thoroughly afterwards
10) Decontaminate and dispose of all samples, used kits and potentially contaminated materials safely in accordance with national and local regulations.

■ Storage and Stability

1) Store the test kit at 2~30°C. **DO NOT FREEZE.**
2) Do not store the test kit in the direct sunlight.
3) The test kit is stable within the expiration date marked on the package label.

■ Collection and Preparation of Sample

1) Canine feces swab should be used for this test.
2) The samples should be tested immediately after collection.
3) If samples are not tested immediately, they should be stored at 2~8°C for 24 hours. For longer storage, freeze at -20°C or below. Frozen samples should be brought to room temperature (15~30°C) prior to use.
4) The amount of fecal swab may affect the results. It is required to follow the swab amount of feces as shown in the picture on the below. Excessive fecal amount may induce a false positive result and slow migration.

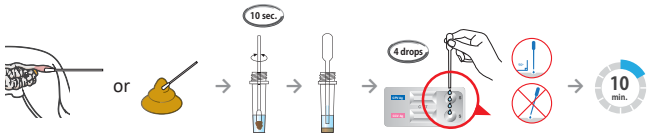


1. Not enough
2. Good
3. Good
4. Too Much

■ Procedure of the Test

1) All reagents and samples must be at room temperature (15~30°C) before use.
2) Collect feces samples using a swab.
3) Insert the swab into the assay diluents tube and mix the swab until the sample has been dissolved into the assay dilunets (Approximately 10sec).
4) Wait for 1 minute to settle down the large particles.
5) Remove the test device from the foil pouch, and place it on a flat and dry surface.
6) Using the disposable dropper, take the supernatant sample in the tube.
7) Add **4 drops of mixed sample** into the sample hole(S), drop by drop vertically.
8) Start the timer. The sample will flow across the result window. If it does not appear after 1 minute, add one more drop of mixed sample to the sample hole.
9) Interpret test results at **5~10 minute**s. Do not read the result after 20 minutes.

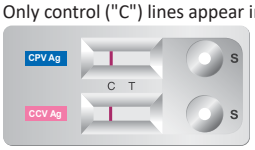
[Figure for test procedures]



■ Interpretation of the Result

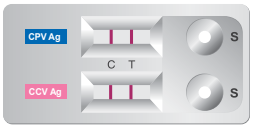
1) Negative result

Only control ("C") lines appear in the result window.



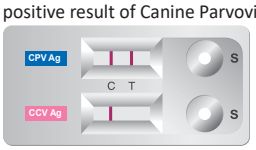
2) Simultaneous CPV and CCV Positive result

The presence of two color bands (“T” and “C”) within the result window on both of the CPV Ag and CCV Ag test areas respectively, no matter which band appears first, indicates a positive result of Canine Parvovirus and Canine Coronavirus simultaneously.



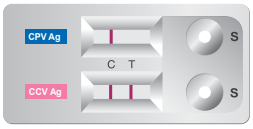
3) CPV Positive result

The presence of two color bands (“T” and “C”) within the result window on the CPV Ag test area and the presence of only one band (“C”) within the result window on the CCV Ag test area, no matter which band appears first, indicates a positive result of Canine Parvovirus only.



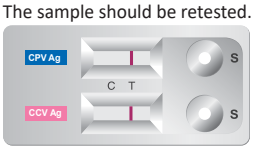
4) CCV Positive result

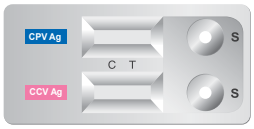
The presence of two color bands (“T” and “C”) within the result window on the CCV Ag test area and the presence of only one band(“C”) within the result window on the CPV Ag test area, no matter which band appears first, indicates a positive result of Canine Coronavirus only.



5) Invalid Result

If the control("C") line does not appear, the result might be considered invalid. The sample should be retested.





■ Limitations of the test

1) Although the Anigen Rapid CPV/CCV Ag test kit is very accurate in detecting Canine Parvovirus antigen, and Canine Coronavirus antigen a low incidence of false results can occur. Other clinically available tests are required if questionable results are obtained. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the results of a single test, but should only be made by the veterinarian after all clinical and laboratory findings have been evaluated. The limit of Canine Parvovirus antigen detection of this kit is approximately $3.13\times10^{5.0}TCID_{50}$/ml. The limit of Canine Coronavirus antigen detection is approximately $1.97\times 10^{4.0}\ TCID_{50}$/ml.
2) The reading window may show a light pink background coloration; this will not affect the accuracy of the results.
3) Anigen and its distributors cannot be held responsible for the consequences of misuse or misinterpretation of the results given by the test.

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细小病毒和犬冠状病毒抗原

兽医诊断使用

Anigen Rapid CPV/CCV Ag Test Kit
细小病毒和冠状病毒抗原快速检测试纸

■ 解释

安捷细小病毒和冠状病毒抗原快速检测试纸能以免疫色谱分析法定性地检测犬类粪便中的犬细小病毒抗原和冠状病毒抗原。
安捷细小病毒抗原和冠状病毒抗原快速检测试纸条表面有字母“T”和“C”作为测试线和控制线。在提供任何样品前，测试线和控制线在结果窗中都不显示。控制线被用作程序控制。如果测试正常地完成，控制线试剂会工作，而且控制线会始终显示。如果在样品中含有足够的犬细小病毒抗原或者冠状病毒抗原，一条紫色地测试线会在结果窗中显示。
犬细小病毒和冠状病毒抗体作为实验的探测捕获原料。此物质可以高精度的检测样品中的犬细小病毒和冠状病毒抗原浓度。

■ 提供的材料

提供的材料	10份试纸
安捷细小病毒抗原和冠状病毒抗原快速检测试纸	10
装有反应缓冲液的样品收集管	10
样品收集棉签	10
一次性滴管	10
一份使用说明	1

■ 需要但未提供的材料

计时器

■ 注意事项

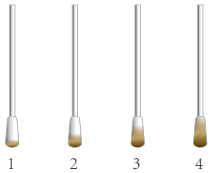
1) 仅供兽医诊断使用。
2) 为了得到最佳的结果，请严格按照使用说明来操作。
3) 所有的样品必须当作具有潜在传染性来处理。
4) 请垂直使用吸管。
5) 在使用试纸以前请不要随便打开。
6) 如果试纸的包装袋封口有损坏请不要使用。
7) 不要使用已用过的试纸。
8) 在反应之前所有的反应物必须处于室温状态。
9) 不要使用超过标签上有效期的试纸。
10) 每一批试纸中的组分经过质量控制的测试。请不要混用不同LOT号码的试剂。

■ 保存和稳定性

1) 试纸可以保存于室温(2~30℃)或者冷藏保存。不要冷冻。
2) 在有效期内的试纸是稳定的。
3) 不要将试纸放置于太阳直射处。

■ 样品收集和准备

1) 该测试使用犬类的粪便。
2) 收集样品后必须立刻进行测试。
3) 如果样品不能马上检测，请置于2-8度可冷藏24小时，若放置于-20度可更久但使用时请恢复至室温。
4) 采集的样本量非常重要。请根据示意图来采集。过多的样本会显示假阳性和跑带缓慢。

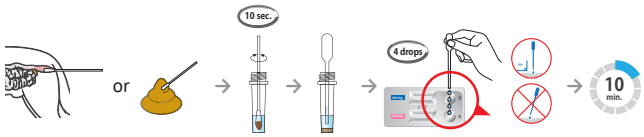


1. 不够
2. 好
3. 好
4. 太多

■ 测试步骤

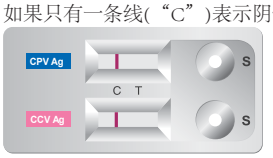
1) 需要在室温下使用（15-30度）。
2) 用棉签收集犬类的粪便。
3) 将棉签插入试管并搅拌10次。
4) 静置试管1分钟。
5) 取出试纸，将它平放于宽敞和干燥的表面。
6) 用提供的吸管小心吸取上清液(不要将粪便颗粒吸取出来)。
7) 用滴管向样品孔中缓慢并且精确地加入**4滴混和液。**
8) 当反应进行时，你会看到紫色的条带在试纸中间的结果窗中移动 如果一分钟以后仍然没有条带移动，请再往样品孔中加入一滴混和液。
9) **5~10分钟**后判断结果。不要超过20分钟。

[测试过程图解]

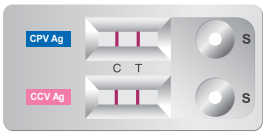


■ 解释

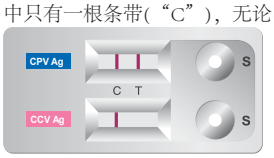
1) 阴性结果
如果只有一条线(“C”)表示阴性结果。



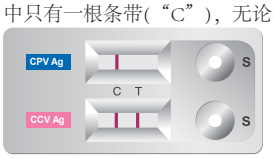
2) 细小病毒和冠状病毒同时阳性
如果在两个结果窗中都出现两根条带(“T”和“C”)，无论那条先出现都表明细小病毒和冠状病毒同时是阳性结果。



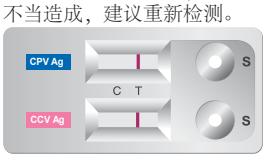
3) 细小病毒阳性
如果在细小病毒结果窗中出现两根条带(“T”和“C”)，但是冠状病毒中只有一根条带(“C”)，无论哪根先出现都表示细小病毒阳性。

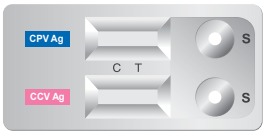


4) 冠状病毒阳性
如果在冠状病毒结果窗中出现两根条带(“T”和“C”)，但是细小病毒中只有一根条带(“C”)，无论哪根先出现都表示冠状病毒阳性。



5) 无效的结果
如果试验操作完成后，未出现对照紫色线(C)，说明结果无效。可能操作不当造成，建议重新检测。





■ 测试限度

1) 即使安捷犬细小病毒抗原和冠状病毒抗原快速检测试纸能极为精确地检测犬细小病毒抗原和冠状病毒抗原，但是也会发生极低的错误结果。如果条件允许可以进行其他临床检查。一个准确的临床诊断结果不应该建立在一个单一测试结果上，而应该经过所有的临床和实验室诊断来评估。细小病毒抗原测试最低检测限度是$3.13\times10^{5.0}TCID_{50}$/ml左右，冠状病毒抗原测试最低检测限度是$1.97\times10^{4.0}TCID_{50}$/ml左右。
2) 阅读窗口可能会显示粉红色的背景，这不会影响结果的准确性。
3) 安捷公司和代理商不会对试纸的勿使用或误判断负责。

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