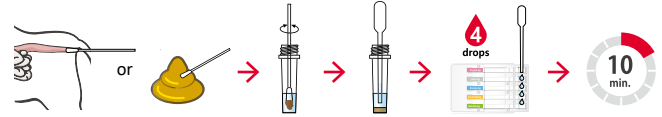


ONE STEP BoviD-5 Antigen Test

For veterinary diagnostic use only

Anigen Rapid BoviD-5 Ag Test Kit

[Test procedure]



Principle

Anigen Rapid BoviD-5 Ag Test Kit is a solid phase immunochromatographic assay for the rapid, qualitative detection of *Cryptosporidium* antigen, Rotavirus antigen, Corona virus antigen, *Escherichia coli* K99 and *Giardia lamblia* antigen in calf feces. **Anigen Rapid BoviD-5 Ag Test Kit** has two letters which are test line(T) and control line(C) on the surface of the device. 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. The control line has to appear every time when the test has performed. If the target is(are) present in specimen, a purple line would appear in the result window.

Materials Provided (10 Tests/Kit)

Reagent	10 Tests/Kit
Anigen Rapid BoviD-5 Ag Test device	10
Assay diluents tube	10
Disposable dropper	10
Disposable swab	10
Instructions for use	1

Materials required, but not provided

Timer

Precautions

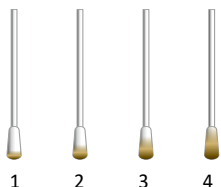
- 1) The test kit is for bovine use only. Do not use for other animals.
- 2) The test device is sensitive to humidity as well as heat. Perform the test immediately after removing the test device from the foil pouch.
- 3) Do not reuse test components.
- 4) Apply the sample using disposable dropper vertically.
- 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 sample 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.
- 11) This product is designed for primary antigen screening and is not suitable for use for verifying the progress of treatment and determining the cure.

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 that marked on the package label.

Specimen Collection and Preparation

- 1) The calf feces should be used as a sample 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 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 fecal samples using a disposable swab.
- 3) Insert the swab into an assay diluents tube. Mix the swab until the sample has been dissolved into the assay diluents.
- 4) Wait for 1 minute to settle down the large particles.
- 5) Remove the test devices from the foil pouch, and place it on a flat and dry surface.
- 6) Using a disposable dropper, take supernatant sample in the tube.
- 7) Add 4(four) drops into the each sample hole using a disposable dropper, drop by drop vertically.
- 8) Start the timer. The sample will flow across the result window. If it does not appear after 1minute, add one more drop of mixed sample to the sample hole.
- 9) Interpret test results at 10 minutes. Do not read the result after 20 minutes.

Interpretation of the Result

1) Negative result

<p>Cryptosporidium antigen Only control line ("C") within the result window indicates negative against <i>Cryptosporidium</i> antigen.</p>	<p>Rota virus antigen Only control line ("C") within the result window indicates negative against Rota virus antigen.</p>
<p>Corona virus antigen Only control line ("C") within the result window indicates negative against Corona virus antigen.</p>	<p>Escherichia coli K99 antigen Only control line ("C") within the result window indicates negative against <i>Escherichia coli</i> K99 antigen.</p>
<p>Giardia lamblia antigen Only control line ("C") within the result window indicates negative against <i>Giardia lamblia</i> antigen.</p>	

2) Positive result

<p>Cryptosporidium antigen Test line and control line ("T" and "C") within the result window of Crypto Ag indicate the presence of <i>Cryptosporidium</i> antigen.</p>	<p>Rota virus antigen Test line and control line ("T" and "C") within the result window of Rota Ag indicate the presence of Rota virus antigen.</p>
<p>Corona virus antigen Test line and control line ("T" and "C") within the result window of Corona Ag indicate the presence of Corona virus antigen.</p>	<p>Escherichia coli K99 antigen Test line and control line ("T" and "C") within the result window of E.coli K99 indicate the presence of <i>Escherichia coli</i> K99 antigen.</p>
<p>Giardia lamblia antigen Test line and control line ("T" and "C") within the result window of Giardia Ag indicate the presence of <i>Giardia lamblia</i> antigen.</p>	

3) Invalid Result

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

<p>Crypto Ag</p>	<p>Crypto Ag</p>
<p>Rota Ag</p>	<p>Rota Ag</p>
<p>Corona Ag</p>	<p>Corona Ag</p>
<p>E.coli K99 Ag</p>	<p>E.coli K99 Ag</p>
<p>Giardia Ag</p>	<p>Giardia Ag</p>

Limitation of the Test

- 1) Although the Anigen BoviD-5 Ag Test kit is very accurate in detecting *Cryptosporidium* antigen, Rotavirus antigen, Corona virus antigen, *Escherichia coli* K99 antigen and *Giardia lamblia* antigen, a low incidence of false results can occur. Other clinical and/or laboratory tests might be required if questionable results are obtained. As other diagnostic tests, a definitive clinical diagnosis should not be based on the result of a single test, but should be diagnosed by the veterinarian after all clinical and laboratory findings have been evaluated.
- 2) The reading window may show a light pink background coloration; this will not affect the accuracy of the results.
- 3) BioNote 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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Revised date: Mar. 07, 2019

牛腹泻病-5联抗原快速检测试剂盒

兽医诊断使用

Anigen Rapid BoviD-5 Ag Test Kit 安捷牛腹泻病-5联抗原快速检测试剂盒

■ 原理

韩国安捷公司的牛腹泻病-5联抗原快速检测试剂盒采用固相免疫层析技术，对牛粪便中的隐孢子虫、冠状病毒、轮状病毒、大肠杆菌 K99、贾第鞭毛虫进行定性检测。

试剂板表面的“T”代表检测线；“C”代表质控线。在加入样品之前，两条线是不显示的。质控线用于监测操作过程。如果试验操作正确，并且质控线的检测试剂有效，质控线应该出现。如果样品中含有任何一种足够量的目的抗原，检测结果为出现两条紫色的检测线。

■ 提供的材料 (10 份/盒)

提供的材料	10 份/盒
安捷牛腹泻病-5联抗原快速检测试剂卡	10
样品稀释液	10
一次性滴管	10
样品采集棉拭子	10
使用说明书	1

■ 需要但未提供的材料

计时器

■ 注意事项

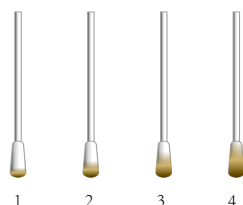
- 1) 仅用于牛，不要用于其他动物。
- 2) 该试纸对湿度和温度敏感，请在使用前打开包装袋。
- 3) 不要重复使用试纸。
- 4) 请垂直使用滴管。
- 5) 请不要触摸试纸的滴样孔。
- 6) 不要使用超过有效期的试纸。
- 7) 请不要使用包装破损的试纸。
- 8) 同一批号的产品经过质量控制，不要混用不同批号的产品。
- 9) 所有样品都具备潜在感染性，应小心操作。
- 10) 严格按照当地法律法规来处理一次性的医疗废弃物。
- 11) 本产品可以灵敏筛查相关病毒抗原，但不建议在用药治疗过程中进行检测或者以此作为判定痊愈的标准。

■ 保存和稳定性

- 1) 试纸应在2~30℃阴凉处保管。避免冷冻储存。样品采集后，应尽快进行检测。
- 2) 不要存放于光线直射处。
- 3) 在有效期前是稳定的。

■ 样品收集和准备

- 1) 仅使用牛粪粪便。
- 2) 收集样品后必须立刻进行测试。
- 3) 若不能即刻使用样品进行测试时，可置于2~8度进行短期冷藏保管。 -20度进行长期冷冻保管。注意使用时请恢复至室温。
- 4) 采集的样品量非常重要。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。

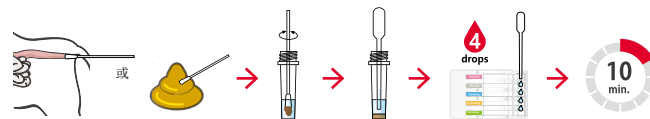


1. 过少
2. 适当
3. 适当
4. 过多

■ 测试步骤

- 1) 需要在室温下使用 (15-30度)。
- 2) 用棉签收集牛粪的粪便。
- 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) 用滴管向样品孔中垂直并且精确地加入 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) 10 分钟后判断结果。不要超过 20 分钟。

[操作过程示意图]



■ 结果解释

1) 阴性结果

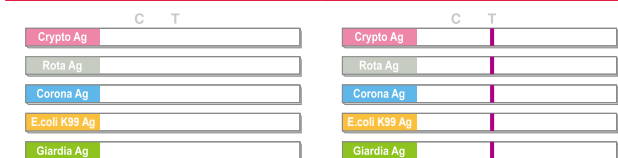
隐孢子虫抗原 仅出现C线，为隐孢子虫抗原阴性。	轮状病毒抗原 仅出现C线，为轮状病毒阴性。
冠状病毒抗原 仅出现C线，为冠状病毒阴性。	大肠杆菌K99抗原 仅出现C线，为大肠杆菌K99抗原阴性。
贾第鞭毛虫抗原 仅出现C线，为贾第鞭毛虫抗原阴性。	

2) 阳性结果

隐孢子虫抗原 出现两条线，C线和T线均出现，说明隐孢子虫抗原阳性。	轮状病毒抗原 出现两条线，C线和T线均出现，说明轮状病毒抗原阳性。
冠状病毒抗原 出现两条线，C线和T线均出现，说明冠状病毒抗原阳性。	大肠杆菌K99抗原 出现两条线，C线和T线均出现，说明大肠杆菌K99抗原阳性。
贾第鞭毛虫抗原 出现两条线，C线和T线均出现，说明贾第鞭毛虫抗原阳性。	

3) 无效结果

结果视窗未出现紫色质控线时，结果无效。其原因，可能是试验操作失误或是试剂盒被污染。该试验需要重做。



■ 实验的局限性

- 1) 该试剂盒是检测样品中的隐孢子虫抗原，轮状病毒抗原，冠状病毒抗原和大肠杆菌K99抗原，贾地鞭毛虫抗原。但这不是诊断该病的唯一标准。和所有的诊断检测一样，疾病的诊断应该是兽医根据临床症状和检测结果进行综合评估。
- 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对使用人员使用试纸时的不正确操作和错误判读负责。

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