



***Tribo*TM Canine Parvovirus (CPV) Antigen Test Strip**

(Catalog No. TBS11106)

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General Description

Canine Parvovirus (CPV) is a virus mainly affecting dogs, leading to a highly contagious and potentially lethal disease, and is spread from dog to dog by direct or indirect contact with their feces. While CPV will not infect humans, it poses serious health risks for dogs.

The disease can occur all year around, although is most common in winter and spring. It has two distinct presentations, an intestinal and a cardiac form. The intestinal form is common for puppies of 3-4 months old, and is initially marked by elevated body temperature, poor spirits and appetite, and vomiting. Subsequently, the virus can cause destruction of the intestinal crypts, so that anaerobic bacteria that normally reside in the intestines can then cross into the bloodstream, leading to sepsis. The most common bacteria involved in severe cases are *Clostridia*, *Campylobacter* and *Salmonella* species. This can further lead to a syndrome known as systemic inflammatory response syndrome (SIRS), resulting in coma and quick death of the infected dogs. The cardiac form causes respiratory or cardiovascular failure in younger puppies (most commonly 4-6 weeks old), as well as light vomiting and diarrhea. Treatment often involves veterinary hospitalization. Vaccines can prevent this infection, but mortality can reach 91% in untreated cases.

The *Tribo*TM Canine Parvovirus (CPV) test strip provides a convenient and rapid test for CPV with a colloidal gold immunochromatographic design. It detects viral antigen with two antibodies in a sandwich assay format, and can be easily performed while testing dog feces samples. It is a **fast** (results shown in 5-10 minutes), **simple, sensitive** and **reliable** detection approach for the presence of CPV.

Intended Use

The *Tribo*TM Canine Parvovirus (CPV) test strip is a lateral flow strip test for the qualitative detection of Canine Parvovirus (CPV) in dog feces.

Safety Instructions

To receive complete safety information on this product, please contact Tribioscience, Inc. and request Material Safety Data Sheet.



Assay Principle

*Tribo*TM Canine Parvovirus (CPV) test strip is based on a sandwich immunoassay principle. An anti-CPV antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Another anti-CPV antibody is immobilized on nitrocellulose membrane. Test sample is loaded onto sample pad, and will subsequently mix with gold-antibody conjugate and migrate along the membrane. If the sample contains no CPV or CPV amount lower than detection limit, antibody conjugated to colloidal gold will not bind CPV and will not bind to the antibody immobilized on membrane. There will not be any red color presented on membrane detection line where the second antibody immobilized. If CPV concentration is higher than detection limit in test sample, it will bind to gold-antibody conjugate and then bind to antibody immobilized on membrane to form antibody-CPV-antibody complex. This complex will present a red colored band on detection line on membrane. A secondary anti-mouse IgG Ab is immobilized on membrane in a separate line (control line) to ensure the validity of each strip test.

Reagents and Materials in Each Pack

- a) 1 strip of Canine Parvovirus (CPV) test
- b) 1 single packed sterile swab for sample collection
- c) 1 test tube containing the sample diluent
- d) 1 pack of desiccant
- e) 1 dropper

Sample Collection and Test Procedure

- Equilibrate test strip at room temperature (20-25°C)
 - Equilibrate test sample at room temperature (20-25°C)
- a) Use a cotton swab moistened with saline to collect sample from rectum or from fresh feces.
 - b) Put the swab in test tube containing the sample diluent, stir to mix, and take supernatant with a disposable dropper to load to strip.
 - c) Remove the test strip from package and put it on the table horizontally, and load 3-5 drops of the mixture to sample loading window.
 - d) Observe result after 5-10 minutes.

Result Interpretation

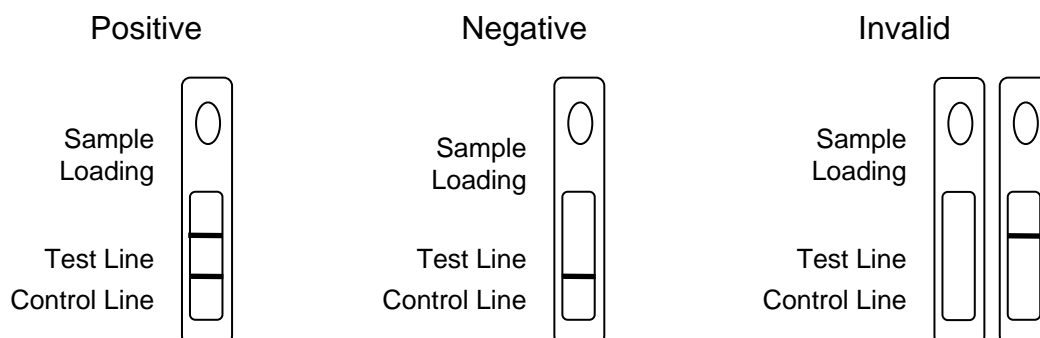


Test result is interpreted by observing test line and control line shown in result window.

Positive: test line and control line present

Negative: no test line, control line present

Invalid test: no control line present



Precautions

1. Test strip should be stored at room temperature and avoid freezing conditions
2. Test strip is for one-time use
3. Test is performed at room temperature, and strip should be equilibrated to room temperature before use
4. After opening package, use the strip on the same day
5. Test samples should be equilibrated to room temperature before being loaded onto strip

Storage and Expiration Date

Storage: room temperature

Expiration Date: 12 months after manufacturing date.

Technical Assistance

For ordering or technical assistance regarding this kit, or for additional information about Tribioscience products, please email info@tribioscience.com or call (650) 917-9269.



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General Limited Warranty

TribioScience, Inc. warrants its manufactured products against defects in materials and workmanship when used in accordance with the applicable instructions for a period not to extend beyond a product's printed expiration date. TribioScience makes no other warranty, expressed or implied. There is no warranty of merchantability or fitness for a particular purpose. The warranty provided herein and the data, specifications and descriptions of TribioScience products appearing in published catalogues and product literature may not be altered except by express written agreement signed by an officer of TribioScience. Representations, oral or written, which are inconsistent with this warranty or such publications are not authorized and, if given, should not be relied upon.

In the event of a breach of the foregoing warranty, TribioScience Inc's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period, provided the customer notifies TribioScience promptly of any such defect. The exclusive remedy provided herein shall not be deemed to have failed of its essential purpose so long as TribioScience is willing and able to repair or replace any nonconforming TribioScience product or part. TribioScience shall not be liable for consequential, incidental, special or any other indirect damages resulting from economic loss or property damage sustained by a customer from the use of its products. However, in some states the purchaser may have rights under state law in addition to those provided by this warranty.



*Tribo*TM犬细小病毒CPV快速检测试纸卡使用说明书

产品编号: TBS11106

1. 产品概述:

犬细小病毒感染引起犬病毒性肠炎或出血性肠炎, 是高度接触性传染的烈性传染病。一年四季均可发生, 但以冬春季多发。不同年龄、性别、品种的犬均可感染, 死亡率很高。临床上表现为肠炎型和心肌炎型。肠炎型多见于 3-4 月龄的幼犬。病初可见体温升高, 精神变差, 不食, 呕吐。肠道出血严重的病例, 由于肠道内的腐败物堆积, 可造成中毒症及弥散性血管内凝血, 使病犬处于休克、昏迷状态, 会很快死亡。心肌炎多见于 4-6 周龄的幼犬。常表现为突然发病、呼吸困难、心力衰竭, 也可见轻度呕吐和腹泻。此型由于发病突然, 病犬抵抗力弱, 往往来不及确诊和治疗即在短时间内死亡。

本产品犬细小病毒 CPV 快速检测试纸卡将胶体金免疫层析原理应用于犬细小病毒的快速测定。试纸卡对病毒抗原进行双抗体夹心检测。检测样品可为犬粪便。使用简便, 反应灵敏。检测迅速, 结果在 5-10 分钟内显示。

2. 检测原理:

犬细小病毒 CPV 快速检测试纸卡将胶体金免疫层析原理应用于犬细小病毒的快速测定。在试纸卡中, 抗犬细小病毒抗体偶联到胶体金颗粒上, 另一个抗犬细小病毒抗体固定在纤维素滤膜上。如果样品不含有犬细小病毒, 胶体金抗体偶联物与固定抗体间不形成结合物, 在膜上不显示检测线, 检测结果为阴性。如果样品中含有犬细小病毒, 犬细小病毒结合在胶体金抗体偶联物上, 然后与固定抗体的结合, 显示检测线, 检测结果为阳性。

3. 试纸卡产品组成:

试纸卡 (1 块); 装有样品稀释液的试管 (1 支); 一次性样品收集棉签 (1 支); 干燥剂 (1 块)

4. 样本收集和检测步骤:

- (1) 生理盐水沾湿的棉签从直肠取样, 或从新鲜粪便中直接取样。
- (2) 将棉签浸入装有样品稀释液的试管, 充分搅拌混匀后, 用一次性滴管取上清液。
- (3) 取出试纸, 开封后平放在桌面, 用滴管往试纸卡加样窗口逐滴加入 3-5 滴混合液。

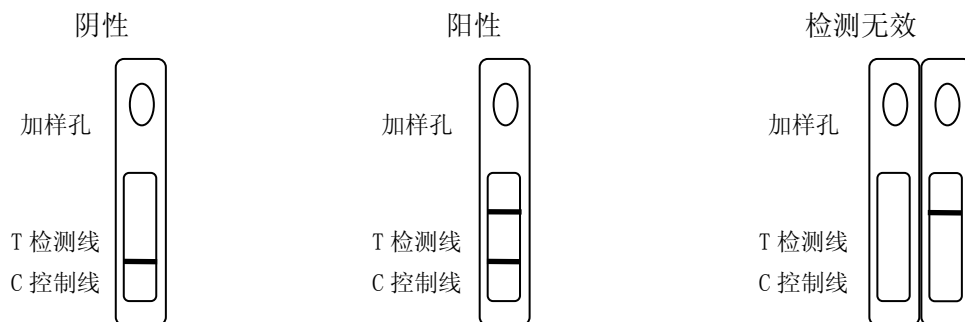
(4) 加样后计时, 5-10 分钟判定结果。

5. 结果判定:

阴性 (-): 检测线 (T) 无色, 控制线 (C) 显色

阳性 (+): 检测线 (T) 和控制线 (C) 都显色

无效: 控制线 (C) 无色, 表示使用方法不正确或试纸卡失效, 结果无效。请对照使用说明书, 用新的试纸卡重新测定



6. 注意事项:

- (1) 本产品犬细小病毒 CPV 快速检测试纸卡为一次性使用。打开包装后, 请在当日尽快使用。
- (2) 样品一般须当即进行检测, 否则应冷藏保存, 超过 24 小时的, 应该冷冻保存。

7. 储存条件和有效期:

犬细小病毒 CPV 快速检测试纸卡原包装在室温 (20-25°C) 下储存, 置于阴凉避光干燥处。有效期为 12 个月, 产品批号及有效期见包装袋。

本产品仅供研究使用。