



***Tribo*TM Canine Distemper Virus (CDV) Antigen Test Strip**

(Catalog No. TBS11101)

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General Description

Canine Distemper Virus (CDV) causes canine distemper, a highly contagious major viral disease of domestic dogs (and sometimes ferrets). CDV is a single-stranded RNA virus of the family paramyxovirus, and thus a close relative of measles and rinderpest. This disease is commonly found on puppies of 3-6 months old, and also on young adult dogs. The early symptoms include fever of 39.5°C to 41.0°C, poor appetite and spirit, ocular and nasal secretions, sneezing, and diarrhea, before the symptoms temporarily disappear for 2-3 days. In the next 2-14 days, high body temperature and other symptoms will return and last for several weeks, together with conjunctivitis, keratitis, and in some cases corneal ulcer and perforation leading to blindness. Bacterial infection can also occur as a complication. In winter, respiratory symptoms are most prominent on dogs infected with the virus.

The *Tribo*TM Canine Distemper Virus (CDV) test strip provides a convenient and rapid test for CDV with a colloidal gold immunochromatographic design. It detects viral antigen with two antibodies in a sandwich assay format, and can be easily performed with plasma / serum, eye and conjunctival secretions, nasal fluid, saliva, and urine samples from dogs. It is a **fast** (results shown in 5-10 minutes), **simple**, **sensitive** and **reliable** detection approach for the presence of CDV.

Intended Use

The *Tribo*TM Canine Distemper Virus (CDV) test strip is a lateral flow strip test for the qualitative detection of Canine Distemper Virus (CDV) in plasma/serum, eye and conjunctival secretions, nasal fluid, saliva, and urine.

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 Distemper Virus (CDV) test strip is based on a sandwich immunoassay principle. An anti-Canine Distemper Virus (CDV) antibody is conjugated to colloidal gold and placed on conjugate pad. Colloidal gold provides red color to visualize antibody-antigen binding. Another anti-Canine Distemper Virus (CDV) 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 Canine Distemper Virus (CDV) or Canine Distemper Virus (CDV) amount lower than detection limit, antibody conjugated to colloidal gold will not bind Canine Distemper Virus (CDV), and therefore will not bind the antibody immobilized on membrane. No red color will be observed on membrane detection line where the latter antibody is immobilized. If Canine Distemper Virus (CDV) is higher than detection limit in test sample, it will bind gold-antibody conjugate and subsequently the antibody immobilized on membrane to form antibody-CDV-antibody sandwich-like complex. This complex will present a red colored band on detection line on membrane. A secondary anti-mouse IgG antibody is immobilized on membrane on a separate line (control line) to ensure the validity of each strip test.

Reagents and Materials Provided

- a) 1 strip of Canine Distemper Virus (CDV) 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

- a) Test samples are plasma/serum, eye and conjunctival, nasal fluid, saliva and urine.
- b) Collect samples at multiple sites and use freshly collected samples.
- c) Mix sample with sample diluent in the mixing tube. Take supernatant for analysis.

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 dog eye and conjunctival secretions, nasal fluid, saliva, and urine. Serum / plasma samples can be used with the dropper directly (mix a drop of serum/plasma with 3 drops of diluent).
 - b) Put the swab in a 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.

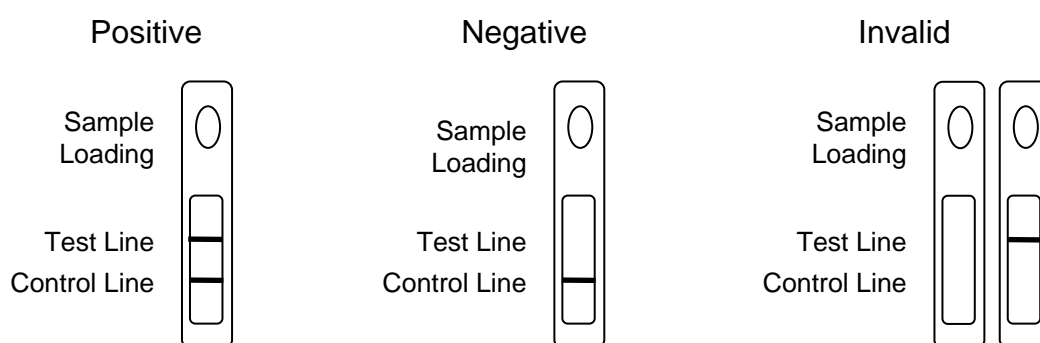
Result Interpretation

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, only 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, 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 to 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犬瘟热病毒CDV快速检测试纸卡使用说明书

产品编号: TBS11101

1. 产品概述:

犬瘟热是由犬瘟热病毒引起的一种传染性极强的病毒性疾病。多发生于 3-6 个月龄幼犬，青年犬也有感染，潜伏期为 3-6 天。初期症状为体温升高至 39.5-41.0 度，食欲不振，精神轻度沉郁，眼鼻流出脓样分泌物，打喷嚏，一时性腹泻，之后有 2-3 天的无症状期。以后 2-14 天内再次出现体温升高和临床症状时，发热持续数周，多呈弛张热型。两侧性结膜炎或角膜炎，流黏液性或脓性眼屎，个别严重病犬可能出现角膜溃疡、穿孔而导致失明。病毒单独感染症状轻微，若继发细菌感染症状加重，冬季的病犬呼吸系统症状较为严重。

本产品犬瘟热病毒 CDV 快速检测试纸卡将胶体金免疫层析原理应用于犬瘟热病毒的快速测定，对病毒抗原进行双抗体夹心检测。检测样品可为血浆/血清，眼部及结膜分泌物，鼻液，唾液，尿液。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:

犬瘟热病毒 CDV 快速检测试纸卡将胶体金免疫层析原理应用于犬瘟热病毒的快速测定。在试纸卡中，抗犬瘟热病毒抗体偶联到胶体金颗粒上，另一个抗犬瘟热病毒抗体固定在纤维素滤膜上。如果样品不含有犬瘟热病毒，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。如果样品中含有犬瘟热病毒，犬瘟热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:

- (1) 该试纸采集样品为血浆/血清，眼部及结膜分泌物，鼻液，唾液，尿液。
- (2) 采集样品时注意多部位同时收集新鲜及有效样品，充分在试管中搅拌稀释，取其上清。

5. 检测步骤:

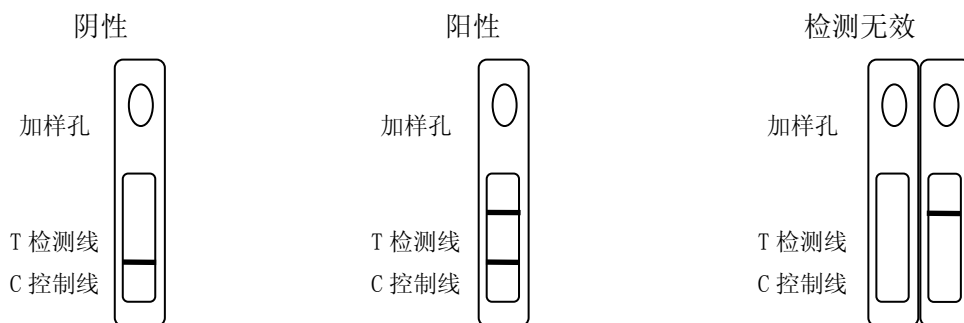
- (1) 用生理盐水沾湿的棉签收集犬眼部及结膜分泌物，鼻液，唾液，尿液。如是血清/血浆则直接用滴管（滴加 1 滴血清，再加 3 滴稀释液）。
- (2) 将棉签浸入装有样品稀释液的试管，充分搅拌混匀后，用一次性滴管取上清液。
- (3) 取出试纸，开封后平放在桌面，用滴管往试纸卡加样窗口逐滴加入 3-5 滴混合液。
- (4) 加样后计时，5-10 分钟判定结果。

6. 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，用新的试纸卡重新测定



7. 注意事项:

- (1) 本产品犬瘟热病毒 CDV 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。

8. 储存条件和有效期:

犬瘟热病毒 CDV 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。