



# Gel Test

Canine Direct Anti-Globulin Test

QR CODE : Movie Procedure



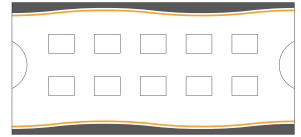
## PROCEDURE FOR CANINE DIRECT ANTI-GLOBULIN TEST (COOMBS TEST)

Material provided :

10 Gel Tests

1 buffer solution

1 box of Gel Tests



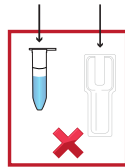
Sample material : Patient's packed red blood cells (pRBCs).  
 Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**  
 For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

Further material required : Centrifuge Hettich EBA270 ; micropipette ; test tubes ; tips.

**WARNING : Use only the swinging bucket centrifuge Hettich EBA270.**

### N°1 : Preparation of material provided before use

Gel Test = Gel tube + Gel support



DO NOT  
DISSOCIATE



Allow the buffer solution and Gel Test to reach room temperature before use.

### N°2 : Centrifugation of the Gel Test before use

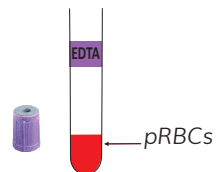
Centrifuge the Gel Test for 2 minutes at 3000 RPM with Hettich EBA270, in order to remove air bubbles or gel drops in the upper part of the Gel Test.



### N°3 : Preparation of blood sample for DAT

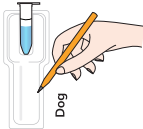
**Patient :**

Centrifuge blood tube for 5 minutes at 3000 RPM, with Hettich EBA270.  
 Discard the plasma to collect pRBCs.

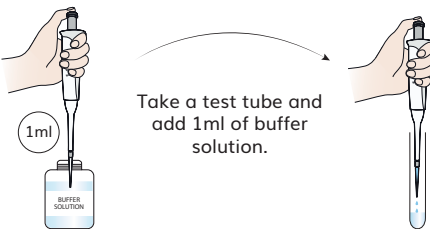


# N°4 : DAT Gel Test procedure

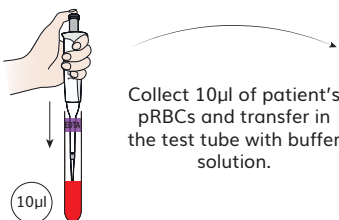
**1** Identify the Gel Test.




**2** Take a test tube and add 1ml of buffer solution.



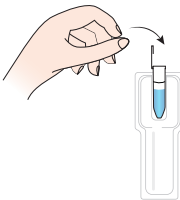
**3** Collect 10µl of patient's pRBCs and transfer in the test tube with buffer solution.



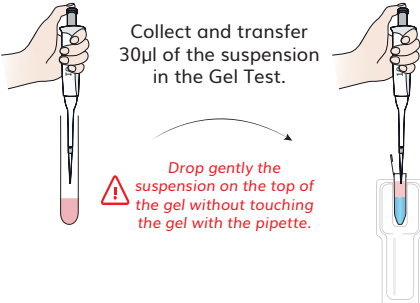
Mix the suspension. (Use immediately the suspension.)



**4** Open the cap.

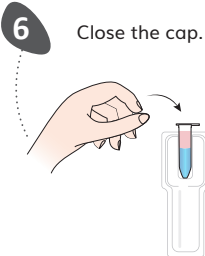


**5** Collect and transfer 30µl of the suspension in the Gel Test.




Drop gently the suspension on the top of the gel without touching the gel with the pipette.


**6** Close the cap.



**7** Insert the Gel Test and a balance Gel Test in the centrifuge.



**8** Centrifuge for 10 minutes at 1500 RPM with Hettich EBA270 :



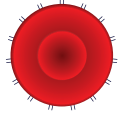
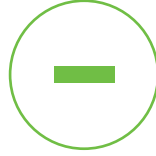
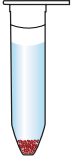
Don't forget the balance or use the auto-control Gel Test.

**If positive result :  
Perform an  
AUTO-CONTROL.**

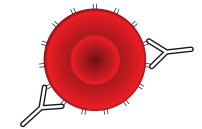
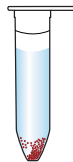
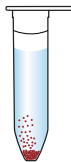
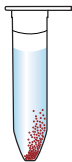
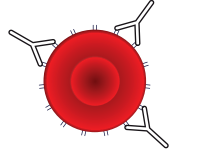
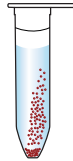
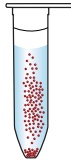
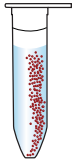
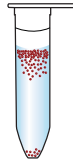
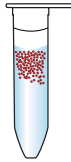
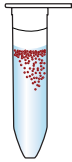
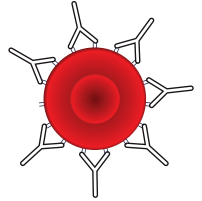
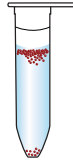
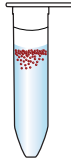
Follow the same  
DAT procedure using  
neutral Get Test.

# RESULT INTERPRETATION

**NEGATIVE** : Absence of immunoglobulin (IgG & IgM) and/or C3 components binding to the RBC surface



**POSITIVE** : Presence of immunoglobulin (IgG & IgM) and/or C3 components binding to the RBC surface.



Troubleshooting  
Please contact the Scientific Service Laboratory  
contact@alvedia.com  
+33(0)478 380 239

**Alvedia**  
Alice Veterinary Diagnostic

# LIMITATIONS

- Do not use Gel Test tubes which show signs of drying.
- Gel Test tubes which show air bubbles or gel drops in the upper part of the tubes must be centrifuged before use.
- Strict adherence to the procedures and recommended equipment, especially the Hettich EBA270, is essential for a reliable and validated result.
- A non-specific centrifuge (fixed angle centrifuge) will give you false positive results.
- Debris, fibrin residues or other artefacts may cause a few unagglutinated cells to trap on top of the gel, but these tests should be interpreted as negative.
- Use of suspension solutions others than the provided one may modify the reactions.
- Too diluted or concentrated red blood cell suspensions can cause aberrant results.
- If the blood tube is hemolyzed, wash 3 times in PBS or saline buffer (NaCl 0,9%) to obtain washed pRBCs. Washing RBCs movie procedure : [www.alvedia.com](http://www.alvedia.com)

## VALID GEL TEST



## DAMAGED GEL TESTS

Please contact us for scientific support.

