



# Gel Test

Feline Direct Anti-Globulin Test

QR CODE : Movie Procedure



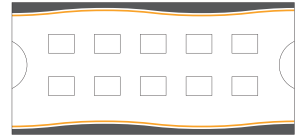
## PROCEDURE FOR FELINE DIRECT ANTI-GLOBULIN TEST (COOMBS TEST)

Material provided :

10 Gel Tests

1 buffer solution

1 box of Gel Tests



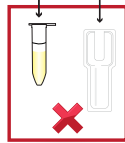
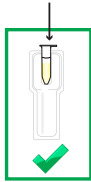
Sample material : Patient's packed red blood cells (pRBCs).  
Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**  
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

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

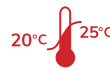
**WARNING : Use only the swinging bucket centrifuge Hettich EBA270.**

### 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

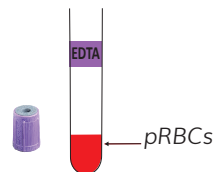
Centrifuge the Gel Test for 2 minutes at 3000 RPM  
with Hettich EBA270, in order to remove air bubbles  
or gel drops in the upper part of the Gel Test.



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

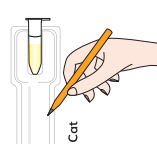
**Patient :**

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



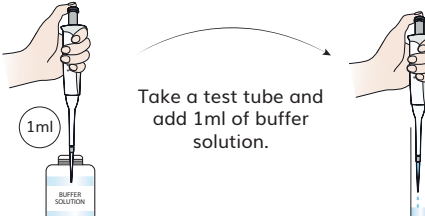
# N°4 : DAT Gel Test procedure

**1** Identify the Gel Test.



Cut

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

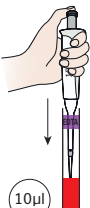


1ml

1ml

BUFFER SOLUTION



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



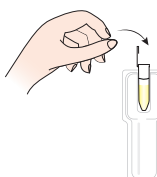
10µl

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

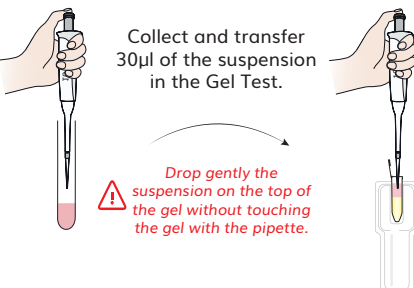
Mix the suspension.  
(Use immediately the suspension.)



**4** Open the cap.

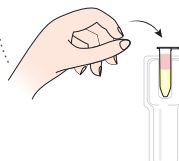


**5** Collect and transfer 30µl of the suspension in the Gel Test.



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.



Gel Test

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

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



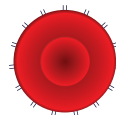
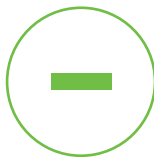
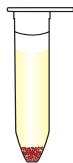
10 min

If positive result :  
Perform an  
AUTO-CONTROL.

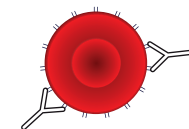
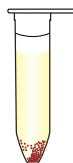
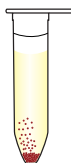
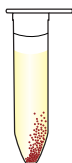
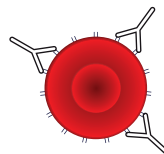
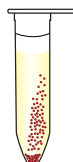
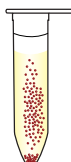
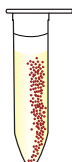
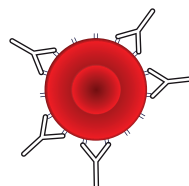
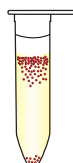
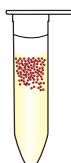
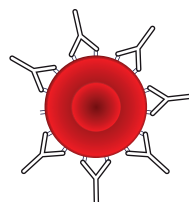
Follow the same  
DAT procedure using  
neutral Get Test.

# 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.

