



Gel Test

Canine Direct Anti-Globulin Test

QR CODE : Movie Procedure



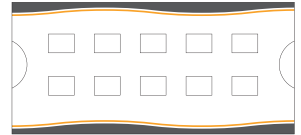
PROCEDURE FOR CANINE DIRECT ANTI-GLOBULIN TEST (COOMBS TEST)

Material provided :

10 Gel Tests

1 buffer solution

1 box of Gel Tests



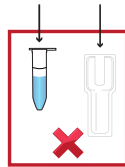
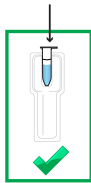
Sample material : Patient's packed red blood cells (pRBCs).
Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).
If blood sample > 3 days OR hemolyzed : wash 1 time the blood.

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.

[minimum 30 minutes at RT]

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.



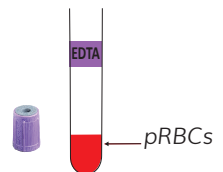
Gel Test

Balance Gel Test
(use another Gel Test
in the box as balance)

N°3 : Preparation of blood sample for DAT

Patient :

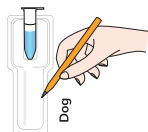
Centrifuge blood tube for 5 minutes at 3000 RPM, with Hettich EBA270.
Discard the plasma to collect pRBCs.



N°4 : DAT Gel Test procedure

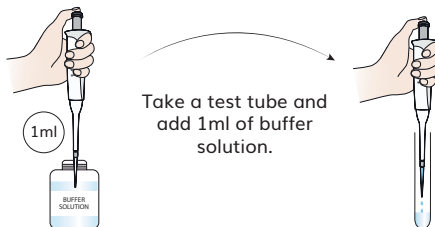
1

Identify the Gel Test.



2

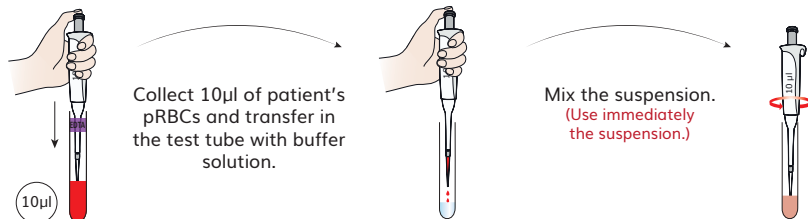
Take a test tube and add 1ml of buffer solution.



3

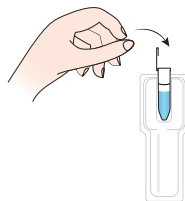
Collect 10µl of patient's pRBCs and transfer in the test tube with buffer solution.

Mix the suspension.
(Use immediately the suspension.)



4

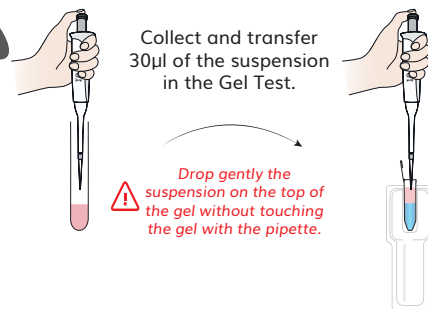
Open the cap.



5

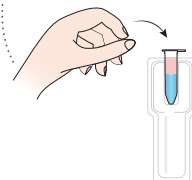
Collect and transfer 30µl of the suspension in the Gel Test.

! 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.



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 :

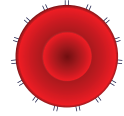
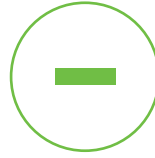
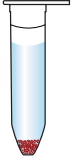


**If positive result :
Perform an
AUTO-CONTROL.**

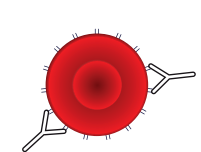
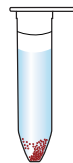
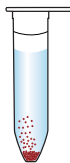
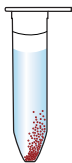
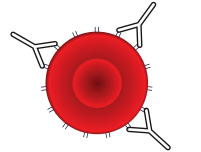
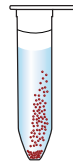
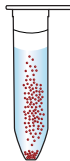
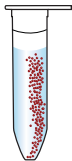
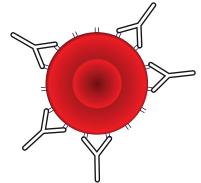
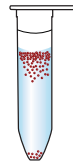
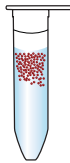
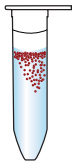
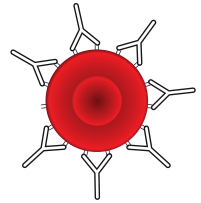
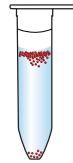
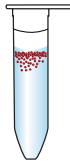
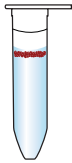
Follow the same DAT procedure **using neutral Get Test.**

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

Procedure Alvedia - maj 06/10/2022- Small Stories ©

LIMITATIONS

- If the blood tube is hemolyzed OR more than 72 hours : wash 1 time in PBS or saline buffer (Nacl 0,9%) to obtain washed pRBCs.
- 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 tube 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 (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 gel, but these 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.

VALID GEL TEST



DAMAGED GEL TESTS

Please contact us for scientific support.

