Gel Test

Feline Direct Anti-Globulin Test

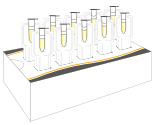
QR CODE : Movie Procedure

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

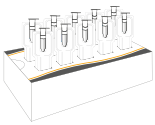
Material provided :

1 buffer solution

1 box of 10 DAT Gel Tests



1 box of 10 neutral Gel Tests



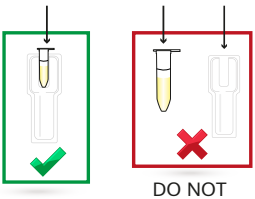
Sample material : **Patient's packed red blood cells (pRBCs).**
Preferably drawn into EDTA, CPD or ACD. Do not use Heparin.
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).
If blood sample > 3 days OR hemolyzed : wash 1 time the blood.

Material required : **Swinging bucket centrifuge* ; 2 micropipettes** *(100-1000µl + 10-100µl)* **; 1 test tube ; tips.**

***WARNING : Use only the swinging bucket centrifuge Hettich EBA270 or Drucker Horizon 6.**

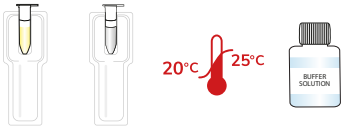
N°1 : Preparation of material provided before use

Gel Test = Gel tube + Gel support



DO NOT DISSOCIATE

DAT Neutral



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

[*minimum 30 minutes at RT]

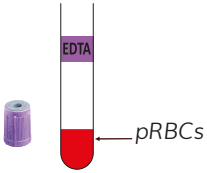
N°2 : Centrifugation of the Gel Test before use

Centrifuge the Gel Tests for **2 minutes at 3000 RPM**, 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

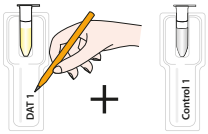
Patient :

Centrifuge blood tube **for 5 minutes at 3000 RPM.**
Discard the plasma to collect pRBCs.



N°4 : DAT Gel Test procedure

1 Identify Gel Tests.



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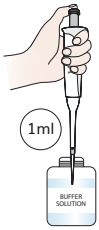
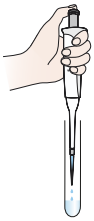


Take a test tube and add 1ml of buffer solution.



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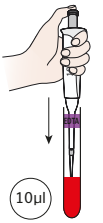
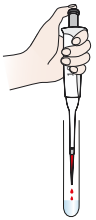
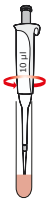


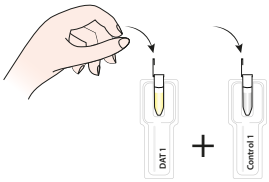
Collect 10µl of patient's pRBCs and transfer in the test tube with buffer solution.



Mix the suspension.
(Use immediately the suspension.)



4 Open the cap.



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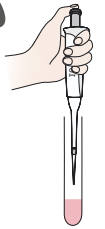
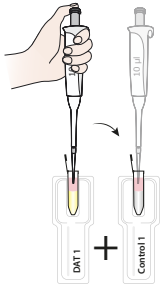
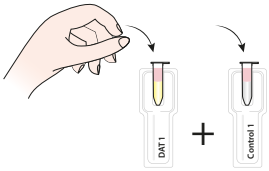


Collect and transfer 30µl of the suspension in each Gel Test.

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



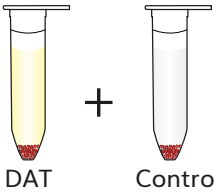
6 Close the cap.



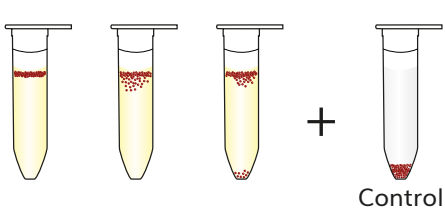
7 Centrifuge for 10 minutes at **1500 RPM** :

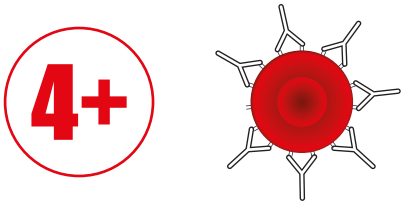
RESULT INTERPRETATION

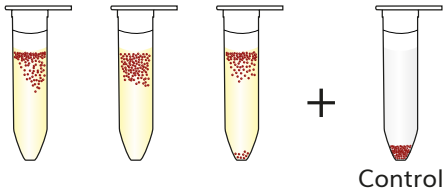
NEGATIVE : Absence of immunoglobulin (IgG & IgM) and/or C3 components binding to the RBC surface

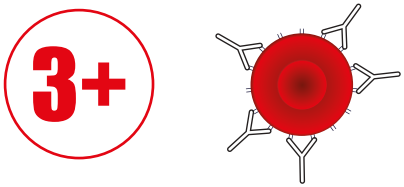


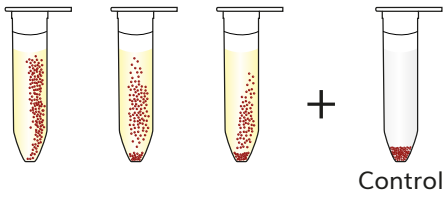
POSITIVE : Presence of immunoglobulin (IgG & IgM) and/or C3 components binding to the RBC surface.

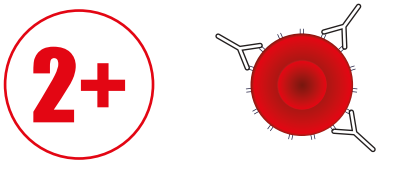


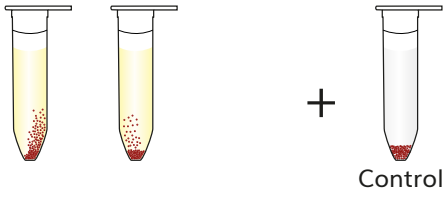


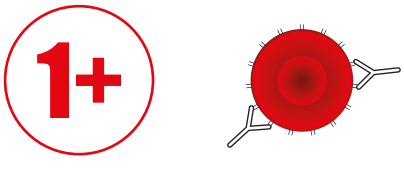












IF POSITIVE CONTROL : WASH THE RBCs 1 TIME AND PERFORM THE TEST AGAIN

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

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 and Drucker Horizon 6, 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.