







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

Material provided:

1 buffer solution









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.

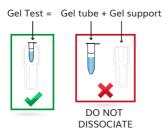
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

If blood sample > 3 days OR hemolyzed : wash 1 time the blood.

 $\label{eq:material required} \textit{Material required: Swinging bucket centrifuge*; 2 micropipettes (100-1000 \mul + 10-1000 \mul); 1 test tube; tips.}$

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

N°1: Preparation of material provided before use











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

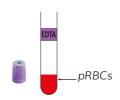
Centrifuge the Gel Tests for 2 minutes at 3000 RPM, in order to remove air bubbles or gel drops in the upper part of the Gel Test.

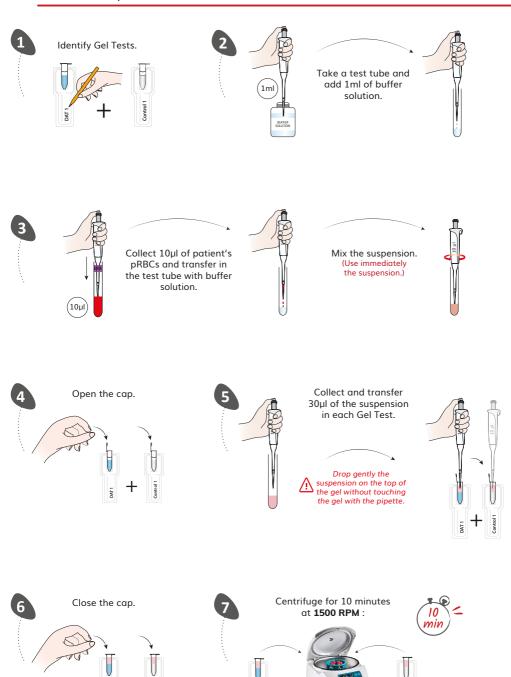


N°3: Preparation of blood sample for DAT

Patient:

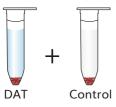
Centrifuge blood tube for 5 minutes at 3000 RPM. Discard the plasma to collect pRBCs.





RESULT INTERPRETATION

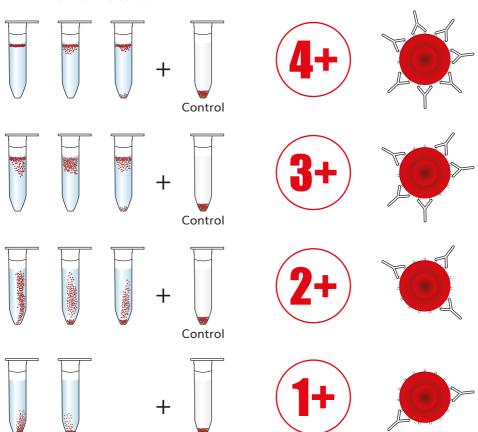
NEGATIVE : Absence of immunoglobulin (IgG & IgM) and/or C3 components binding to the RBC surface







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

Control

Troubleshooting
Please contact the Scientific Service Laboratory
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Procedure Alvedia mai 15 (03 1003 Small Station

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.



