



# Gel Test

Canine Direct Anti-Globulin Test

PROCEDURE



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

Material provided :

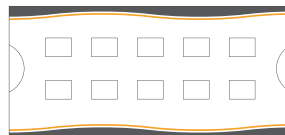
10 Gel Tests



1 buffer solution



1 box of Gel Tests



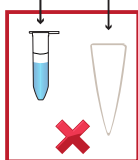
Sample material : Patient's packed red blood cells (pRBCs).  
Preferably drawn into EDTA, CPD or ACD. **Do not use Heparin.**  
For reliable results, use of freshly collected blood is indicated (<3 days at 2 - 8 °C).

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



20°C 25°C



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.

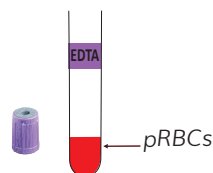


### N°3 : Preparation of blood sample for DAT

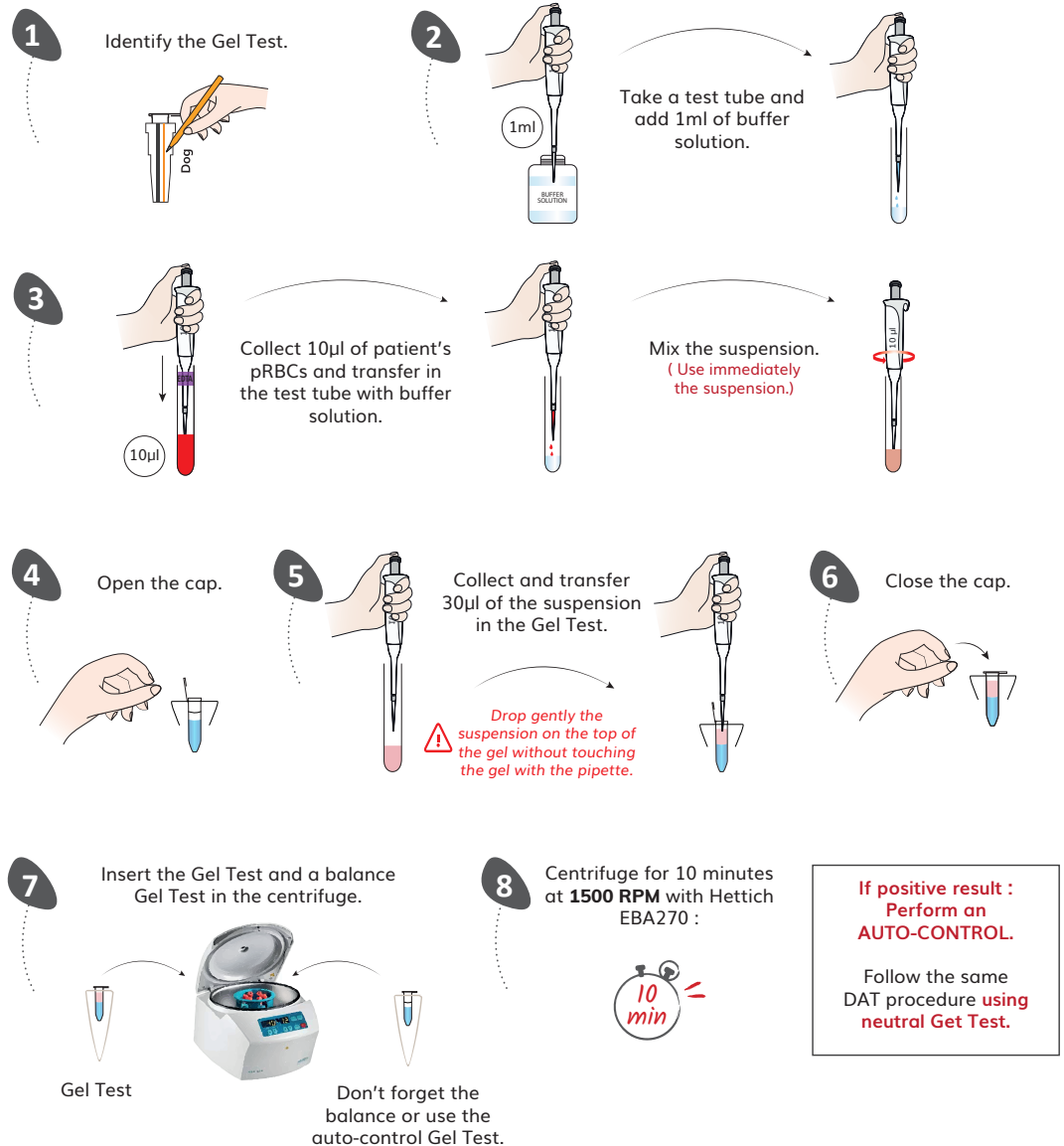
**Patient :**

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

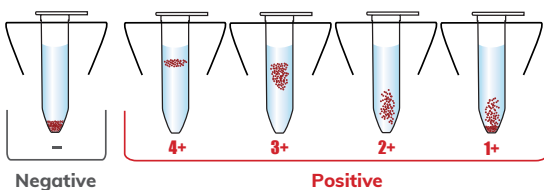
**Warning :** If the blood tube is hemolyzed, wash 3 times PBS or NaCl 0,9% to obtain washed pRBCs. **Washing RBCs movie procedure :** [www.alvedia.com](http://www.alvedia.com)



## N°4 : DAT Gel Test procedure



## RESULT INTERPRETATION



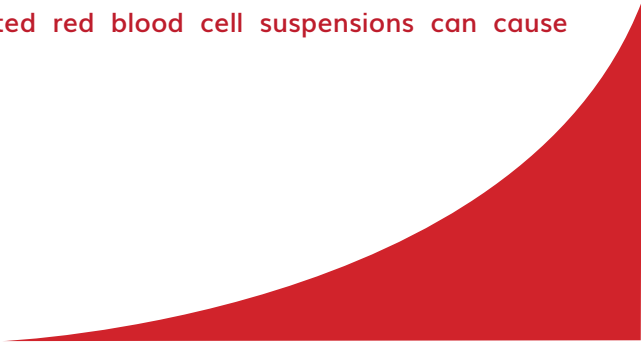
Troubleshooting  
Please contact the  
Scientific Service Laboratory  
contact@alvedia.com  
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## LIMITATIONS

- 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.
  - Fibrin residues in the red blood cell suspension may trap non-agglutinated cells presenting a fine pink line on top of the gel while most of the cells are on the bottom of the microtube after centrifugation.
  - Use of suspension solutions other than the provided one may modify the reactions.
  - Too diluted or concentrated red blood cell suspensions can cause aberrant results.
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## VALID GEL TEST



## DAMAGED GEL TESTS

Please contact us for scientific support.

