

# TROUBLESHOOTING PROCEDURES

THE MOST COMMON TROUBLESHOOTING WITH THE QUICK TEST OR THE LABTEST TECHNOLOGY IS THE ABSENCE OF MIGRATION OF RED BLOOD CELLS ALONG THE STRIP. WE HAVE NOTICED THAT THE CAUSES ARE OFTEN THE SAME: ICTERUS PLASMA ASSOCIATED WITH IMHA AND/OR COLD AGGLUTININ ANEMIA.

OUR TECHNOLOGY WILL ALLOW YOU TO SCREEN THE PRESENCE OF COLD AGGLUTININ ANEMIA AND SOMETIMES SEVERE IMHA.



EXAMPLE OF RESULT WITH NO MIGRATION

## PROCEDURE:

### STEP 1:

- MIX 10 $\mu$ L OF BLOOD WITH 3 DROPS OF BUFFER INTO THE WELL
- HEAT THE SUSPENSION AT 37° (98F) DURING 15 MINUTES
- PERFORM THE TEST AGAIN
- INTERPRETATION OF THE RESULT:

IF YOU ARE ABLE TO READ A RELIABLE RESULT, IT MEANS THAT THE CAUSE IS COLD AGGLUTININ. IF YOU ARE STILL UNABLE TO READ THE RESULT, PROCEED TO STEP 2.

### STEP 2:

- WASH 3 TIMES RED BLOOD CELLS (SEE PROCEDURE BELOW)
- MIX 5 $\mu$ L OF PACKED RED BLOOD CELLS AND 3 DROPS OF BUFFER
- PERFORM THE TEST AGAIN
- INTERPRETATION OF THE RESULT:

IF YOU ARE ABLE TO READ A RELIABLE RESULT, IT MEANS THAT THE CAUSE COULD BE AN ICTERUS DUE TO AN IMHA. PROCEED TO A DIRECT ANTI-GLOBULIN TEST FOR CONFIRMATION.

# WASHING RED BLOOD CELLS PROCEDURE

## STEP 1



PREPARE A 15ML TEST TUBE AND LABEL THE TUBE WITH APPROPRIATE IDENTIFICATION.

## STEP 2



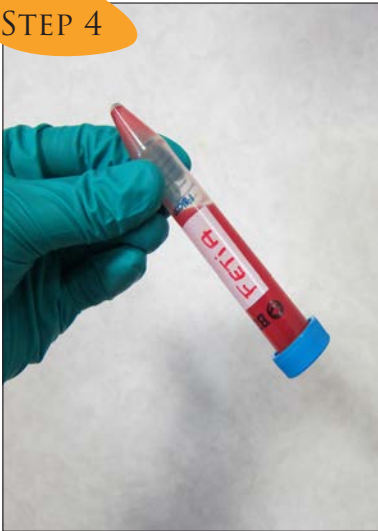
WITH A PIPETTE, PLACE 500 $\mu$ L OF WHOLE BLOOD INTO THE TEST TUBE.

## STEP 3



FILL THE TUBE WITH 10ML NORMAL SALINE BUFFER

## STEP 4



MIX WELL TO OBTAIN A HOMOGENEOUS SUSPENSION

## STEP 5



CENTRIFUGE THE TUBE FOR 3 MINUTES AT 1000G OR 2300 RPM

## STEP 6



DISCARD SUPERNATANT SALINE BUFFER FROM THE CELLS

REPEAT STEPS  
3 / 4 / 5 / 6  
THREE TIMES



THE GOAL IS TO ACHIEVE A CLEAR AND COLORLESS SUPERNATANT

# EXAMPLE OF CANINE COLD AGGLUTININ

## USUAL PROCEDURE

- 10µL OF WHOLE BLOOD
- 3 DROPS OF BUFFER

## RECOMMENDED PROCEDURE

- 10µL OF WHOLE BLOOD
- 3 DROPS OF BUFFER
- SUSPENSION HEATEN AT 37° (98F) DURING 15 MINUTES

**RESULT FORM IN DOGS**

Date : 26/01/2013 **LabTEST** DEA 1

Name of dog : HAUSNANN

Identification code : \_\_\_\_\_


Typing performed by : **ALVEDIA**

Lab Test lot number : **ALV-C47**

Group :  **DEA 1 +**  **DEA 1 -**

To interpret your result, stick the membrane below, respecting the orientation of the membrane

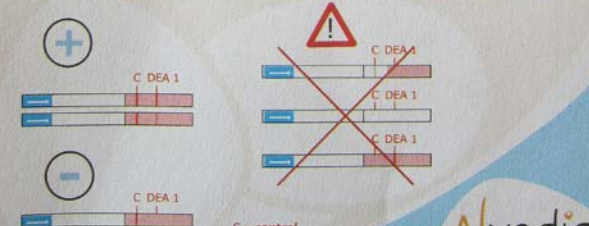
**NORMAL PROCEDURE**



READ IMMEDIATELY AFTER TESTING

IF POSITIVE, THE DEA1 LINE WILL ALWAYS SHOW DIFFERENT INTENSITY:  
WEAK, NORMAL, STRONG

**INTERPRETATION OF RESULTS**



C = control

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ABSENCE OF MIGRATION

**RESULT FORM IN DOGS**

Date : 26/01/2013 **LabTEST** DEA 1

Name of dog : HAUSNANN

Identification code : \_\_\_\_\_

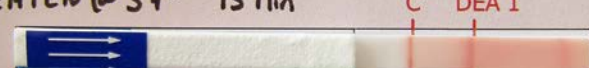
Typing performed by : **ALVEDIA**

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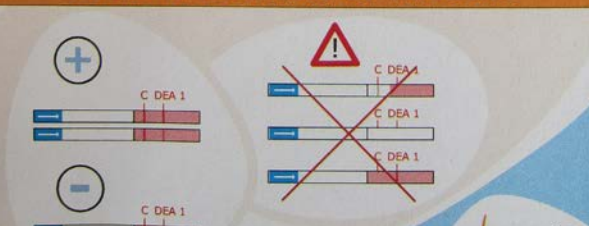
**HEATEN @ 37° 15 min**



READ IMMEDIATELY AFTER TESTING

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COMPLETE MIGRATION  
WITH RELIABLE RESULT

IN THIS CASE, A DIRECT ANTIGLOBULIN TEST (DAT) WAS PERFORMED. THE DAT WAS POSITIVE