



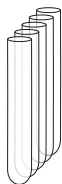
Lab Test XM

Canine

25 min

CANINE PROCEDURE FOR MAJOR CROSSMATCH*

Material provided :



5 large tubes (5mL)



5 XM membranes



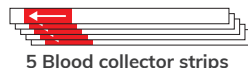
1 white top buffer 1



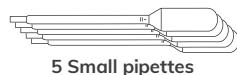
1 green top buffer 2



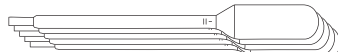
1 Wash Buffer



5 Blood collector strips



5 Small pipettes



5 Large pipettes

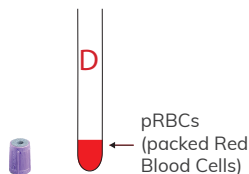
* For minor XM reverse the blood samples : Minor = Donor Plasma + Recipient RBCs and perform the same procedure

N°1 : PREPARATION OF BLOOD SAMPLES

(MAJOR = Donor RBCs + Recipient plasma)

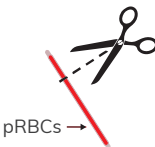
Donor

Centrifuge blood tube
(5 min at 1000g).
Discard the plasma to collect pRBCs.



OR

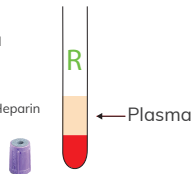
Collect blood from
blood bag
segment.



Recipient

Centrifuge blood tube
(5 min at 1000g)
in order to collect plasma ⁽¹⁾ :

Whole blood
• EDTA
• ACD
• CPD
Do not use Heparin



⁽¹⁾ or serum if using a dry tube

N°2 : PREPARATION OF MAJOR XM

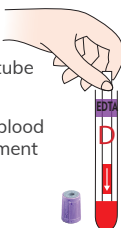
1



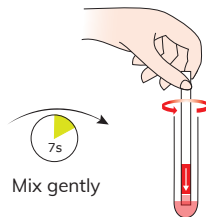
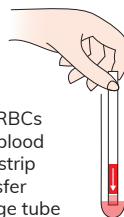
Add 4 drops of the white top
Buffer 1
in the large tube

2

Donor's tube
OR
Donor's blood bag
segment

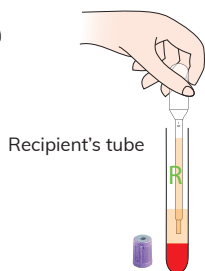


Collect pRBCs
with the blood
collector strip
and transfer
in the large tube



Mix gently

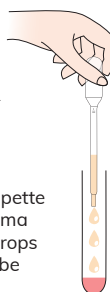
3



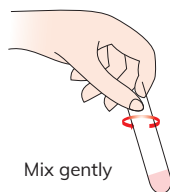
Recipient's tube



With the small pipette
collect the plasma
and transfer 3 drops
in the large tube



Discard pipette



Mix gently

N°3 : INCUBATION



Incubate 10 minutes
at room temperature



N°4 : WASHING PROCEDURE

FIRST WASH

1

With the large pipette
fill the tube with 3 mL
of wash buffer

WASH BUFFER

Add
3 mL

2

Vortex the suspension

3

Centrifuge
2 min
at 1000g

Don't forget the balance tube
(not provided)

4

Discard the supernatant only :
the RBCs pellet must stay at the bottom

SECOND WASH

5

With the large pipette
fill the tube with 3 mL
of wash buffer

WASH BUFFER

Add
3 mL

6

Resuspend completely
the pellet by vortexing
the suspension

7

Centrifuge
2 min
at 1000g

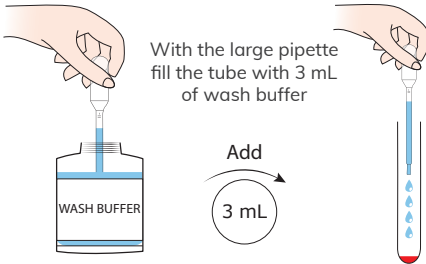
Don't forget the balance tube

8

Discard the supernatant only :
the RBCs pellet must stay at the bottom

THIRD WASH (PROCEDURE TO AVOID DILUTION BEFORE TESTING)

9



With the large pipette fill the tube with 3 mL of wash buffer

Add
3 mL

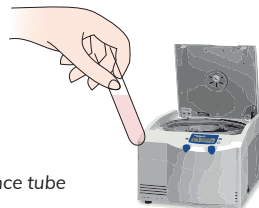
10



Resuspend completely the pellet by vortexing the suspension

11

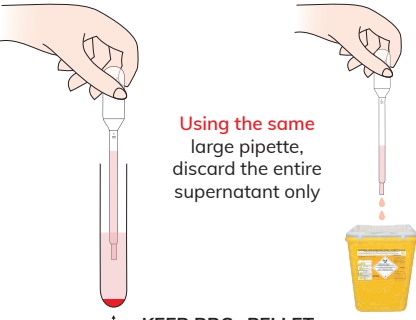
Centrifuge
2 min
at 1000g



Don't forget the balance tube

12

A

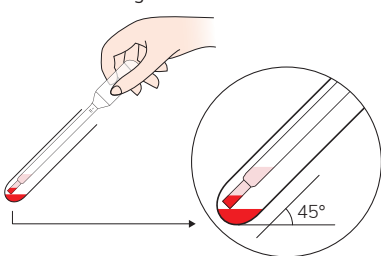


Using the same large pipette, discard the entire supernatant only

KEEP RBCs PELLET

B

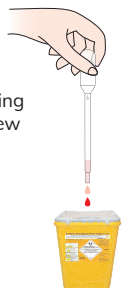
Discard the residual supernatant until reaching few RBCs



C

Discard the remaining supernatant with few RBCs

Discard pipette



D

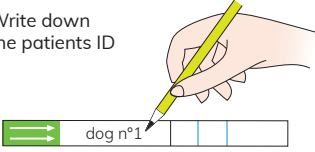
Washed RBCs pellet ready for XM test procedure



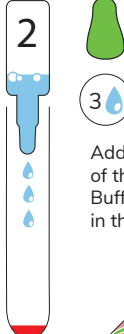
TO BE USED IMMEDIATELY

1

Write down the patients ID



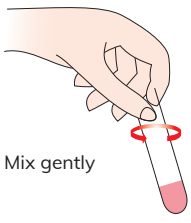
2



3

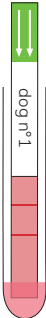
Add 3 drops of the green top Buffer 2 in the large tube

Mix gently



3

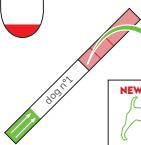
Insert the XM membrane in the large tube



5 to 10 min

DO NOT READ THE RESULT AFTER 15 MIN

4



NEW FORM

RESULT FORM CANINE
for Crossmatch Test (XM)
Lab-Test XM
Canine

Date :

Name/N° of donor :

Name/N° of recipient :

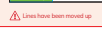
Test performed by :

Lab Test lot number :

RESULT ☐ Incompatible XM + ☒ Compatible XM -

TO INTERPRET YOUR RESULTS, CLICK THE MEMBRANE BELOW
Read immediately after testing.

C XM



C = CONTROL LINE
XM = CROSSMATCH TEST

Lines have been moved up

INTERPRETATION OF RESULTS

**Incompatibility
DO NOT TRANSFUSE**



White line = positive result

**Compatibility
SAFE TRANSFUSION**



White line = negative result

In case of any other result, please take a picture and send us an email at : contact@alvedia.com www.alvedia.com

ALVEDIA
alice veterinary diagnostics

Read the result

March 2025 - PRODUCT UPDATE
Lines have been moved up

SCIENTIFIC ADVISES

It is **MANDATORY** to blood type the donor and the recipient
before making a Canine XM Test.
Always transfuse **COMPATIBLE** blood.

Be careful, low titer and/or low affinity alloantibodies can be eluted during washing
step procedures. This can affect the sensitivity of the XM test.

Usually, these alloantibodies cannot induce severe or mild hemolytic transfusion reactions.

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

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Procedure Alvedia - maj 03/09/2025 - Small Stories ®

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