

TROUBLESHOOTING PROCEDURE

BLOOD TYPING – CANINE

VALID RESULTS:



N°	DOUBTFUL RESULTS	POSSIBLE CAUSES	SOLUTION
1		Very anemic patient - Low PCV	1/ Centrifuge blood tube and remove plasma: blood separation movie 2/ Perform a new blood typing test using 10 µL of pRBCs
2		Strong auto-agglutination Low PCV and/or icterus plasma and/or IMHA	1/ Wash Red Blood Cells: washing RBC movie 2/ Perform a new blood typing test using 10 µL of washed RBCs
3		Cold agglutinin disease Hemolytic anemia induced by antibodies whose thermal reactivity is below 37 °C	1/ Wash Red Blood Cells: washing RBC movie 2/ Heat the suspension for 5 minutes at 37 °C (3 buffer drops + 10 µL washed RBCs) 3/ Perform a new blood typing test using the heated suspension
4		Extremely weak DEA1+ dog Very low density of DEA1 antigens	Double checking is necessary: 1/ Centrifuge blood tube and remove plasma: blood separation movie 2/ Perform a new blood typing test using 10 µL of pRBCs
5		Hemolyzed sample Destruction of RBCs and red tinge plasma/serum	1/ Centrifuge blood tube and remove plasma: blood separation movie 2/ Perform a new blood typing test using 10 µL of pRBCs
6		Mismatch between canine and feline blood tubes weak DEA1 line: cross-reaction with DEA1 antibody	1/ Check the blood sample 2/ Perform a new blood typing test using a canine blood sample

PARTICULAR CASES

Blood typing results after a transfusion when the blood type had not been determined prior to the transfusion

	RECIPIENT BEFORE TRANSFUSION	UNIT OF BLOOD TRANSFUSED	POSSIBLE RESULT AFTER TRANSFUSION
7	: DEA1 -	DEA1 +	: DEA1 weak +
8	: DEA1 weak +	DEA1 -	: DEA1 -