

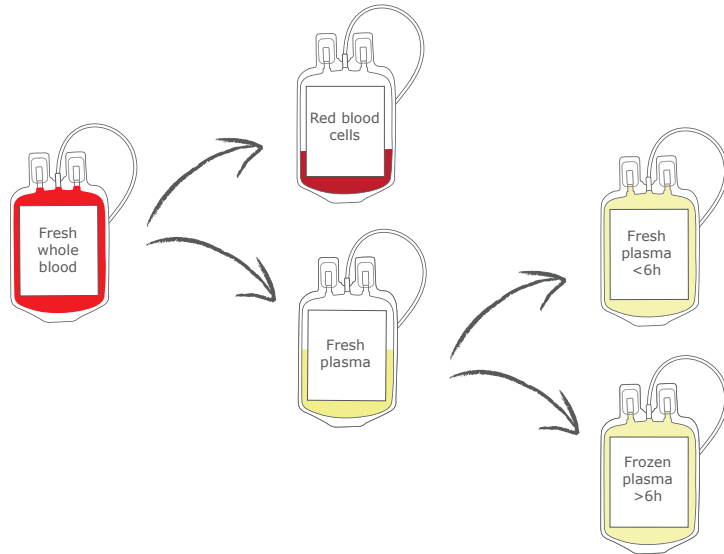


# BLOOD PRODUCTS

## 1. Blood Product Overview

Treatment of whole blood to obtain packed red blood cells and plasma is the easiest to carry out in practice.

Thanks to the separation of blood in its two components, two products are obtained and two animals can be treated.



## 2. Characteristics and use of blood products

Blood product	Use	Precautions
<b>Whole blood</b> <ul style="list-style-type: none"> <li>until 24 hours after collection</li> </ul>	<ul style="list-style-type: none"> <li>Haemostasis disorders : thrombocytopenia, thrombopathias, coagulopathies;</li> <li>Anaemia, hemorrhage;</li> <li>Renal failure;</li> <li>Liver failure;</li> <li>Septic shock.</li> </ul>	<ul style="list-style-type: none"> <li>In anaemic patients, risk of volume overload.</li> </ul>
<b>Fresh Plasma</b> <ul style="list-style-type: none"> <li>separated for less than 4 h use within 24 h</li> </ul> <b>Frozen Plasma</b> <ul style="list-style-type: none"> <li>frozen within 6 to 8h</li> </ul>	<ul style="list-style-type: none"> <li>Hypovolemia (trauma, surgical resuscitation);</li> <li>Acquired or hereditary deficiency of coagulation factors;</li> <li>Antivitamin K poisoning</li> <li>Hypoproteinemia;</li> <li>Pancreatitis;</li> <li>Antioxydant properties.</li> </ul>	<ul style="list-style-type: none"> <li>Because of the short half-life of coagulation factors, several transfusions may be necessary.</li> </ul>
<b>Packed Red Blood Cells</b> <ul style="list-style-type: none"> <li>Erythrocyte suspension obtained after centrifugation: 2000 rpm for 30 min, or 5000 rpm for 5 min</li> <li>50% &lt; Ht &lt; 80%</li> </ul>	<ul style="list-style-type: none"> <li>Anaemia.</li> </ul>	<ul style="list-style-type: none"> <li>High viscosity reduces administration speed.</li> <li>Dilution with NaCl 0,9% (0,5mL per mL of concentrate).</li> </ul>