To produce Leucodepleted Red Cell Concentrate (SAGM), Plasma, and Platelets Concentrate from Buffy-Coat.

To produce Leucodepleted Red Cell Concentrate (SAGM), Plasma, and Buffy-Coat for Platelets Concentrate.

To produce Leucodepleted Red Cell Concentrate (SAGM), and Plasma.
MacoPharma develops and manufactures leucodepletion systems to improve the quality and the safety of blood transfusion.

LEUCOFLEX LCR5 is a new in-line filter for the leucodepletion of Red Cell Concentrates at ambient temperature.

Leucodepletion improves the storage quality of red cells, minimizes the risks of alloimmunisation, Febrile Non Haemolytic Transfusion Reactions, post operative infection, immunomodulation, viral contamination (CMV, HTLV...), bacterial contamination and potential white cell-associated prion load.

**TRACEABILITY**

By producing the complete leucodepletion system (both bags and filters), MacoPharma can ensure:
- Maximal traceability on each system
- Optimal filter traceability in each batch of packs
- Individual traceability on each filter through a unique number.

**FLEXIBILITY**

MacoPharma offers maximum flexibility:
- Flexible filter designed for centrifugation:
  - The unique MacoPharma PVC flexible housing is the ideal material for in-line red cell filtration:
  - Single step sterilisation of the complete system (bags and filter)
  - Absolute integrity of the filter after steam sterilisation guaranteed
  - Easy centrifugation in any existing equipment, with no risk of damage to the bags
  - Ease of use during processing
  - No one-way valve, no associated risk
  - Convenient for donation teams.

- Flexible process conditions:
  - Red cell filtration can be carried out immediately after component separation at ambient temperature, or at +4°C (up to 48 hours after donation)
  - According to the configuration, it is possible to prepare platelets from PRP or Buffy-Coat.

- Flexible range:
  - The widest range of configurations on the market.

**PRINCIPLE**

A Whole blood unit collected and centrifuged in an LCR5 set allows a blood component separation on demand.

LEUCOFLEX LCR5 is integrated within the blood pack system. It is a depth filter made from layers of polyester and polypropylene allowing leucodepletion of Red Cell Concentrates at ambient temperature.

**PRINCIPLE**

With LCR5, transfer of the additive solution and filtration are simply carried out by gravity.

LEUCOFLEX LCR5 achieves over 4 log white cell reduction, with a haemoglobin loss below 7g.