



RBCs are washed to remove plasma and other blood components

Fully tested, outdated or fresh red blood cells (RBCs)

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A chemical cross-linker

circulate longer within

the blood vessels

stabilizes each Hb molecule and links together several such molecules so they

## **HEMOGLOBIN PURIFICATION**

Column chromatography is used to purify Hb from any remaining blood proteins



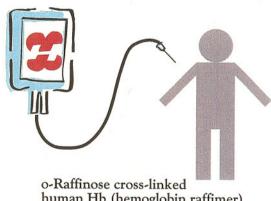
Solution is filtered using

Solution is filtered using two separate methods to remove potential contaminants

FINAL PRODUCT FORMULATION



The product is adjusted to the final Hb concentration and is packaged ready for administration to the patient



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RBCs are broken down (lysed) to release hemoglobin (Hb)

human Hb (hemoglobin raffimer) is then given to the patient

Figure 1 - Manufacturing Process for Hemoglobin Raffimer



Carbon Monoxide is added to stabilize the Hb, which is then heat pasteurized to destroy viruses and bacteria

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