

Non Radioisotopic Systems for Blood Irradiation

Blood Components	X-RAY	UV Pathogen Reduction (Amotosalen)	UV Pathogen Reduction Riboflavin
Red Blood Cells	✓	✗	↻
Platelets	✓	✓	↻
Plasma	✓	✓	↻
Whole Blood	✓	✗	↻
Transfusion Infections Graft vs Host Disease	✓	✓	↻



FDA
Approved



In Clinical Process For FDA Approval



No FDA approval

Four main components in blood



Plasma- liquid part of blood. A dilute solution of salts, glucose, amino acids, vitamins, urea, proteins and fats.

White blood cells- involved in immune system.

Platelets- involved in blood clotting.

Red blood cells- involved in carrying oxygen.

Blood cells