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(54) Title: COMPOSITIONS AND METHODS FOR THE STORAGE OF RED BLOOD CELLS

(57) Abstract: The present invention provides an aqueous composition for storage of red blood cells consisting essentially of: adenine; dextrose; at least one non-metabolizable membrane-protectant sugar; and a specifically defined pH buffering system. Also provided are improved methods for preserving red blood cells and methods for increasing the viability, membrane retention, and recoverability while suppressing apoptosis, hemolysis, and post-reinfusion clearance of stored red blood cells which utilize the novel compositions.



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