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(54) Title: PLASMA CONCENTRATE AND TISSUE SEALANT COMPOSITIONS

(57) Abstract

An inexpensive device, shown in the figure, for preparing tissue sealant is disclosed. The device is particularly applicable to preparation of autologous tissue sealant. A method of sealing tissue in which the tissue sealant is applied immediately after mixing platelet-rich plasma concentrate with a solution of calcium and thrombin is also disclosed. Adhesive and tensile strengths are comparable or superior to pooled blood fibrin sealants made with precipitation methods. Antifibrinolytic agents are not necessary because the tissue sealant contains high concentrations of natural inhibitors of fibrinolysis from the patient's blood. The tissue sealant also contains patient platelets and additional factors not present in available fibrin sealants that promote wound healing.

