

Title (en)

COMPOSITIONS FOR FREEZE-DRYING PROTEINS

Title (de)

ZUSAMMENSETZUNGEN FÜR GEFRIERGETROCKNETE PROTEINE

Title (fr)

COMPOSITIONS POUR LA LYOPHILISATION DE PROTEINES

Publication

**EP 1843753 A2 20071017 (FR)**

Application

**EP 06709174 A 20060126**

Priority

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- FR 0500791 A 20050126

Abstract (en)

[origin: FR2881139A1] A liquid composition (A) for lyophilization of proteins (I), previously diluted in (A), so as to stabilize (I) in the dry, lyophilized state and optionally also in the liquid state after rehydration of the lyophilizate, where (A) has a predominantly crystalline or amorphous structure when lyophilized, comprises a filler, stabilizer, buffer and optionally nonionic surfactant. A liquid composition (A) for lyophilization of proteins (I), previously diluted in (A), so as to stabilize (I) in the dry, lyophilized state and optionally also in the liquid state after rehydration of the lyophilizate, where (A) has a predominantly crystalline or amorphous structure when lyophilized, comprises about 40-60 g/l filler (II) with temperature of collapse (Tc) -18 to 0[deg]C; 10-20 g/l of a stabilizer (III); 10-20 mM buffer solution (IV) that does not crystallize when the composition is frozen and optionally 0.1-0.4 g/l of nonionic surfactant (V). In (A) the weight ratio (II):(III) is over 3:1 when the composition has a mainly crystalline structure when frozen; the weight ratio (III):(I) is over 1:1; (A) contains no excipients of animal origin, and Tc is -16 to -10[deg]C. Independent claims are also included for: (1) lyophilizing selected proteins (I) that includes dissolving them in (A); (2) preparing (I) stabilized in solution by rehydrating lyophilized products of method (1); (3) screening (A) for use in lyophilization of particular proteins; and (4) liquid compositions (A).

IPC 8 full level

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CPC (source: EP US)

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