

Title (en)  
MACROMOLECULAR PHARMACEUTICAL AGENT SOLUBILIZED IN AEROSOL PROPELLANT

Title (de)  
IN AEROSOLTREIBMITTEL AUFGELÖSTER MAKROMOLEKULARER ARZNEISTOFF

Title (fr)  
AGENT PHARMACEUTIQUE DISSOUT DANS UN PROPULSEUR D'AEROSOL

Publication  
**EP 1162958 A1 20011219 (EN)**

Application  
**EP 00908880 A 20000310**

Priority  
• CA 0000260 W 20000310  
• US 27256399 A 19990319  
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Abstract (en)  
[origin: WO0056291A1] A formulation with a pharmaceutical agent solubilized in a propellant can be administered buccally or into the lungs using a metered dose spray applicator. The pharmaceutical agent is dispensed from a pressurized container containing a stable solubilized mixture of propellant which is liquid under pressure and an intermediate formulation. The intermediate formulation comprises the proteinic pharmaceutical agent, water, first ingredient, second ingredient and at least one third ingredient. The first ingredient is glycerin and/or polyglycerin in an amount of from 1-50 wt./wt.% of the intermediate formulation. The second ingredient is phenol and/or methyl phenol in an amount of from 1-20 wt./wt.% of the intermediate formulation. Each third ingredient is selected from the group consisting of alkali metal C8 to C22 alkyl sulphate, polidocanol C6 to C40 alkyl ethers, trihydroxy sodium oxo-cholanyl glycines, polyoxyethylene sorbitanethers, alkyl-aryl polyether alcohols, hyaluronic acid and pharmaceutically suitable salts thereof, monoolein, triolein, lysine, polylysine, oleic acid, linoleic acid, linolenic acid, monooleates and laurates, glycolic acid, lactic acid, chenodeoxycholate, deoxycholate, chamomile extract, cucumber extract, borage oil and evening of primrose oil and mixtures thereof, in an amount of from 1-50 wt./wt.% of the intermediate formulation. The total concentration of first, second and third ingredients is less than 90 wt./wt.% of the intermediate formulation.

IPC 1-7  
**A61K 9/72; A61K 38/28**

IPC 8 full level  
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