# Exhibit 1007





US006946150B2

# (12) United States Patent Whittle

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(54)	PHARMACEUTICAL FORMULATION					
(75)	Inventor:	Brian Whittle, East Yorkshire (GB)				
(73)	Assignee:	GW Pharma Limited, Wiltshire (GB)				
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 2 days.				
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	US 2004/0034108 A1 Feb. 19, 2004					
(51)	<b>Int. Cl.</b> <sup>7</sup> <b>A01N 65/00</b> ; A61K 35/78					
	<b>U.S. Cl.</b>					
(58)	Field of Search 424/725, 435,					
		424/434, 449, 443, 447				
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#### (57) ABSTRACT

The invention relates to pharmaceutical formulations, and more particularly to formulations containing cannabinoids for administration via a pump action spray. In particular, the invention relates to pharmaceutical formulations, for use in administration of lipophilic medicaments via mucosal surfaces, comprising: at least one lipophilic medicament, a solvent and a co-solvent, wherein the total amount of solvent and co-solvent present in the formulation is greater than 55% wt/wt of the formulation and the formulation is absent of a self emulsifying agent and/or a fluorinated propellant.

26 Claims, 9 Drawing Sheets



Fig. la

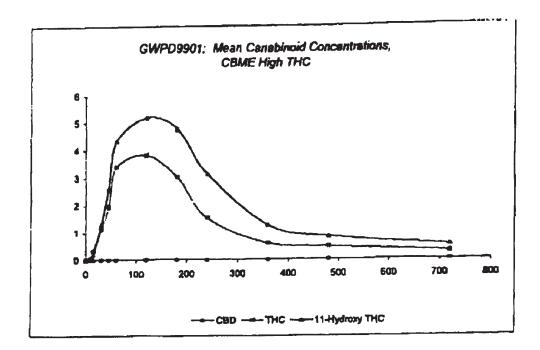


Fig. 16

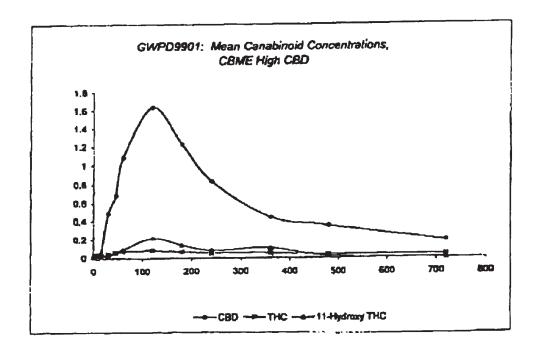
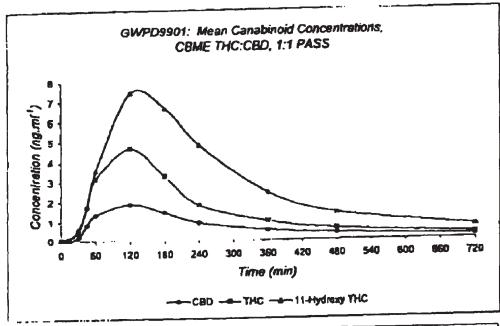




Fig. 2



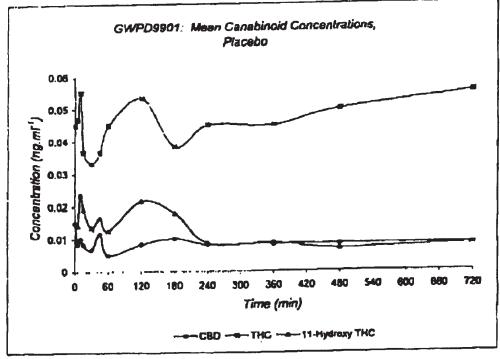
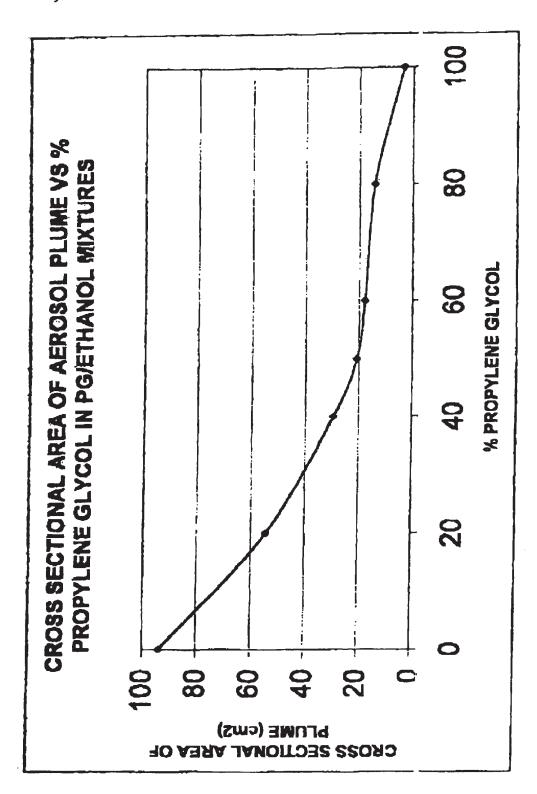




Fig. 3





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