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DWPI Title ?

New amorphous solid-state form of (R)-(+)-7-(3-amino-2,3,4,5,6,7-hexahydro-1H-azepin-1-yl)-1,4-dihydro-4-oxoquinoline-3-carboxylic acid useful for treating bacterial infection

Original Title ?

Amorphous **Besifloxacin** Solid

Abstract ?

Amorphous solid-state form of (R)-(+)-7-(3-amino-2,3,4,5,6,7-hexahydro-1H-azepin-1-yl)-1,4-dihydro-4-oxoquinoline-3-carboxylic acid is characterized by at least one of: (a) an X-ray powder diffraction ("XRPD") spectrum that comprises peaks at 2θ angles of 6.9-7.1, 9.4, 10.6-10.7, and 13.4-13.7°±0.2°, and a diffuse halo pattern at 11-30°; and (b) a DSC (differential scanning calorimetry) melting peak at about 267-272° C. The amorphous solid is prepared by rapid precipitation from a saturated or supersaturated solution of **besifloxacin** free base in a solvent comprising at least benzyl alcohol.

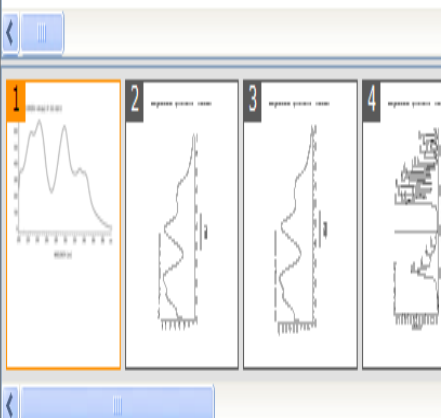
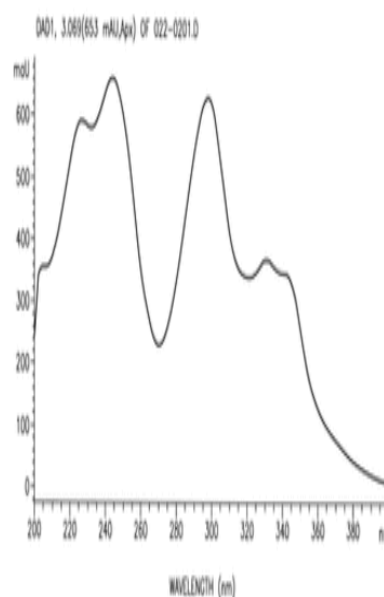
First Claim ?

1. An amorphous solid-state form of (R)-(+)-7-(3-amino-2,3,4,5,6,7-hexahydro-1H-azepin-1-yl)-1,4-dihydro-4-oxoquinoline-3-carboxylic acid characterized by an X-ray powder diffraction ("XRPD") spectrum that comprises peaks at 2θ angles of 6.9-7.1,

Images

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Zoom (+)



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9.4, 10.6-10.7, and 13.4-13.7°±0.2°, and a diffuse halo pattern at 11-30°.

Assignee / Applicant ?

-

Inventor ?

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Publication Number / Date ?

[US20110144329A1](#) / 2011-06-16

Application Number / Date ?

[US2010956009A](#) / 2010-11-30

Priority Number / Date ?

[US2010956009A](#) / 2010-11-30

IPC ?

Current IPC	Invention	Version	Additional	Version
Full	C07D 223/12	20060101	-	-
Main Group	-	-	-	-
Subclass	-	-	-	-

Original IPC	Invention	Version	Additional	Version
Advanced/Full	C07D 223/12	20060101	-	-
Core/Main Group	-	-	-	-
Subclass	-	-	-	-

Images

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Print Application Publication: Jan. 18, 2011 Read 5 of 8 US 20110144329 A1

