

CLAIMS

We Claim:

1. A process for preparation of triazole salts comprises of:
 - 5 a. the salt formation; by dissolving a triazole compound and a dilaurylglyceryl fumarate in a suitable polar solvents for formation of a triazole salt at a pre-determined temperate and time; and
 - b. isolation of the triazole salt using a non-polar cyclic or acyclic hydrocarbon solvent; wherein the polar solvent for salt formation is selected from polar protic solvents or
10 polar aprotic solvents; further the non-polar solvent for isolation of the triazole salt is selected from cyclic and acyclic hydrocarbons.
2. The process as claimed in claim 1, wherein the triazole compounds are posaconazole, voriconazole and itraconazole.
3. The process as claimed in claim 1, wherein the polar protic solvents and polar aprotic solvents
15 for salt formation comprises methanol, ethanol, isopropanol, water, acetonitrile, methyl tertiary butyl ether (MTBE), tetrahydrofuran, chlorinated solvent, dichloromethane, teracholoethane or chloroform preferably acetonitrile and dichloromethane.
4. The process as claimed in claim 1, wherein, the non-polar cyclic or acyclic hydrocarbon solvent for isolation comprises cyclohexane, hexane or heptane preferably hexane.
- 20 5. The process as claimed in o claim 1, wherein, the triazole salt are isolated in the form of amorphous salt, crystalline salt or a combination.
6. The process as claimed in claim 1 claim 1, wherein the triazole salts are dilauryl glyceryl fumarate of posaconazole, dilauryl glyceryl fumarate of voriconazole and dilauryl glyceryl fumarate of itraconazole.
- 25 7. The process according to claim 1 or 6, wherein the preparation of dilauryl glyceryl fumarate of posaconazole comprises of:
 - a. dissolving posaconazole and dilaurylglyceryl fumarate in the acetonitrile and heating the reaction mixture to a temperature about 50-55°C for 180 minutes with continuous stirring to obtain a clear solutions;

- b. acetonitrile is distilled off from the reaction mixture at temperature not exceeding 40°C to obtain a white solid having the dilauryl glyceryl fumarate of posaconazole; and
- c. dilauryl glyceryl fumarate of posaconazole is isolated from the white solid by washing and filtering the solid in hexane to yield above 97.3 % dilauryl glyceryl fumarate of posaconazole as white solid.
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8. The process as claimed in claim 1 or 6, wherein the preparation of dilauryl glyceryl fumarate of voriconazole comprises of:
- a. dissolving voriconazole and dilaurylglyceryl fumarate in the acetonitrile and heating the reaction mixture to a temperature about 50-55°C for 180 minutes with continuous stirring to obtain a clear solutions;
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- b. acetonitrile is distilled off from the reaction mixture at temperature not exceeding 40°C to obtain a solid mixture having the dilauryl glyceryl fumarate of voriconazole; and
- c. dilauryl glyceryl fumarate of voriconazole is isolated from the solid mixture by washing, filtering drying the solid mixture in hexane to yield above 98.8 % dilauryl glyceryl fumarate of voriconazole as off white solid.
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9. The process as claimed in claim 1 or 6, wherein the preparation of dilauryl glyceryl fumarate of itraconazole comprises of:
- a. dissolving itraconazole and dilaurylglyceryl fumarate in the dichloromethane and heating the reaction mixture to a temperature about 35-38°C for 120 minutes with continuous stirring, this mixture is subjected to carbon treatment for 60 minute and the mixture is filtered through a hyflo bed and washed with dichloromethane;
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- b. dichloromethane is distilled off from the reaction mixture at temperature not exceeding 40°C to obtain a solid mixture having the dilauryl glyceryl fumarate of itraconazole; and
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- c. dilauryl glyceryl fumarate of itraconazole is isolated from the solid mixture by washing, filtering drying the solid mixture in hexane to yield above 98.7 % dilauryl glyceryl fumarate of itraconazole as light yellow solid.
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10. The triazole salts prepared by the process according to claims 7 to 9, are processed using a chemical process or physical manipulation to obtain a particle size ranging from 0.001 micron to 100 micron through.