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A SIMPLE AND EFFICIENT PROTOCOL FOR THE SYNTHESIS OF 1,8-NAPHTHYRIDINES USING SODIUM HYDROGENSULFATE ON SILICA GEL UNDER SOLVENT FREE CONDITION

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A simple and efficient method for the synthesis of 1,8-naphthyridines using silicagel supported sodium hydrogen sulfate as reusable eco-friendly catalyst *via* Friedlander annulation under solvent-free conditions is described. A series of functionalized derivatives have been synthesized in shorter reaction times with good yields. The use of milder catalyst in non-conventional method offers significant advantages over conventional methods, such as higher selectivities, simplicity, solvent-free reaction and non-environmental polluting conditions.