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Over production of cyclosporine A under solid state fermentation by new isolate of *Fusarium oxysporum*

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Abstract : Screening for cyclosporine producing by *Fusarium* strains was investigated .The study involved 7 endophytic isolates of grapevine roots crimson cultivar, two isolate of *Fusarium solani*, two isolates of *F.oxysporium* fsp.*herbemontis* and three isolates of *Fusarium oxysporum* from date palm trees. Different agriculture wastes (soybean meal, wheat bran ,wheat straw and Rice bran) were tested under different fermentation conditions such as , fermentation time, glucose concentration as well as solvent used for extraction. The results indicated that the best yield of cyclosporine A (855 mg) was obtained by isolate of *Fusarium oxysporum* f.sp.*herbemontis*(no.2) using wheat bran, at 8 days fermentation period and butylacetate was the best solvent used for extraction.

Key wards. Cyclosporine A , solid state fermentation ,*Fusarium* sp.

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