

Microwave-assisted synthesis of acetophenone (per-O-acetylated-?-D-glucopyranosyl)-thiosemicarbazones

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Abstract: Thirteen new substituted acetophenone (2,3,4,6-tetra-O-acetyl-?-Dglucopyranosyl)-thiosemicarbazones (3) were synthesized by reaction of 2,3,4,6-tetra-O-acetyl-?-D-glucopyranosyl thiosemicarbazide (1) and substituted acetophenones (2). The reaction was performed using microwaveassisted method. The compounds (3) have remarkable antibacterial and antifungal activities against *Escherichia coli*, *Staphylococcus epidermidis* and *Candida albicans*.

Author Keywords: Acetophenone; Glucopyranosyl thiosemicarbazide; Microwave-assisted method; Thiosemicarbazones

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