

**Source:** Soltani, S., Montazeri, N., Zeydi, M. M., & [Heravi, M. M.](#) (2020). Synthesis of New Bis (Indolyl) Methanes Catalyzed by Benzylsulfamic Acid and Evaluation of Their Antimicrobial Activities. *Pharmaceutical Chemistry Journal*, 53(10), 947-952. <https://doi.org/10.1007/s11094-020-02103-3>.

# Synthesis of New Bis(Indolyl)Methanes Catalyzed by Benzylsulfamic Acid and Evaluation of Their Antimicrobial Activities

Sara Soltani<sup>1</sup>, Naser Montazeri<sup>1</sup>, Masoud Mohammadi Zeydi<sup>1</sup>, [Majid M. Heravi](#)<sup>2</sup>

1-Department of Chemistry, Faculty of Sciences, Islamic Azad University, Tonekabon Branch, Tonekabon, Iran

2-Department of Chemistry, School of Science, Alzahra University, Vanak, Tehran, Iran

Benzylsulfamic acid has been prepared and introduced as a new heterogeneous acid catalyst. This reagent was used for the synthesis of new bis(indolyl)methanes 3a – 3f via reaction of bis-aldehydes 1 with indoles 2 at 100°C. All reactions were performed under solvent-free conditions with high to excellent yields. The synthesized bis(indolyl)methanes were evaluated for their antibacterial and antifungal activities.

**Keywords:** bis(indolyl)methanes; benzylsulfamic acid; heterogeneous catalysis; antibacterial activity; antifungal activity