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Synthesis of 5Z,5'Z,5''Z)-6,6',6''-(4,4',4''-NITRILOTRIS(BENZENE-4,1-DIYL))TRIS(5-NITROHEX-5-EN-2-ONE) and (4Z,4'Z,4''Z)-TRIETHYL 5,5',5''-(4,4',4''-NITRILOTRIS(BENZENE-4,1-DIYL))TRIS(4-NITROPENT-4-ENOATE) Derived From Baylis–Hillman Adduct and Evaluation of Antibacterial Activity

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Abstract: we have successfully developed a simple methodology for the synthesis of 5z,5'z,5''z)-6,6',6''-(4,4',4''-nitrilotris(benzene-4,1-diyl))tris(5-nitrohex-5-en-2-one) and (4z,4'z,4''z)-triethyl 5,5',5''-(4,4',4''-nitrilotris(benzene-4,1-diyl))tris(4-nitropent-4-enoate) derivatives involving a tandem construction of C–C bonds through Prins-type reactions using Baylis–Hillman adducts with (TNVPA) 1 with MVK 2 under the influence of imidazole. We also demonstrated that this method is useful for making novel type of BH adducts.

Key Words : Nitrostyrene, Imidazole, MeOH, tris(4-((Z)-2-nitrovinyl)phenyl)amine, Methyl vinyl ketone, Baylis–Hillman adducts.

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