


# APPENDICES

Publication A (first page only):

	<b>WORLD JOURNAL OF PHARMACEUTICAL RESEARCH</b> SJIF Impact Factor 8.074 Volume 7, Issue 4, 467-471      Review Article      ISSN 2277- 7105
<b>SYNTHESIS AND ANTIMICROBIAL ACTIVITY OF 2-{1'-ARYL-1'-[4''-(2'''-HYDROXY ETHOXY ETHYL) PIPERAZIN-YL]-METHYL}-CYCLOHEXANONE HYDROCHLORIDE</b>	
<b>Rakesh P. N. Roshan<sup>1</sup>, D. M. Purohit<sup>2</sup> and Sandip K. Matariya<sup>1*</sup></b>	
<sup>1</sup> R. K. University, Rajkot, (Guj), India. <sup>2</sup> Shri M and N. Virani Science College, Department of Chemistry, Kalawad Road, Rajkot-390005, (Guj), India. <sup>*</sup> Smt. S. M. Panchal Science College, Department of Chemistry, Talod, (Guj), India.	
<p>Article Received on 26 December 2017, Revised on 19 Jan. 2018, Accepted on 08 Feb. 2018 DOI: 10.20929/wjpr201704-11157</p>	<p><b>ABSTRACT</b> 2-{1'-Aryl-1'-[4''-(2'''-hydroxyethoxy ethyl)piperazin-yl]-methyl}-cyclohexanone hydrochloride (4a-4l) have been synthesized. The products have been assayed for their antimicrobial activity against Gram+ve, Gram-ve bacteria and fungi. All the products were assigned with IR, 1HNMR, Mass Spectra, TLC, and elemental analysis. Some of the products showed moderate activity, compare with known standard drugs.</p> <p><b>KEYWORDS:</b> 2-{1'-Aryl-1'-[4''-(2'''-hydroxyethoxy ethyl)piperazin-yl]-methyl}-cyclohexanone drugs.</p>
<p><b>*Corresponding Author</b> <b>Sandip K. Matariya</b> Smt. S. M. Panchal Science College, Department of Chemistry, Talod, (Guj), India.</p>	<p><b>INTRODUCTION</b></p>



# Synthesis, Antibacterial and Antifungal Activity of 2-{1'-Aryl-1'-[4''-(2''', 3''')-Dichlorophenyl] Piperazin-Yl]-Methyl}-Cyclohexanone Hydrochloride

Rakesh P.N.Roshan<sup>1</sup>, D.M.Purohit<sup>2</sup>, Sandip K.Matariya<sup>3</sup>

<sup>1</sup>R.K. University, Rajkot, (Guj), India

<sup>2</sup>Shri M&N. Virani Science College, Department of Chemistry, Kalavadi Road, Rajkot-390005, (Guj), India

<sup>3</sup>Smt.S.M.Panchal Science College, Department of Chemistry, Talod, (Guj), India

*Abstract: 2-{1'-Aryl-1'-[4''-(2''', 3''')-dichlorophenyl]piperazin-yl]-methyl}-cyclohexanone hydrochloride (4a-4j) have been synthesized. The products have been assayed for their antibacterial and antifungal activity against Gram+ve, Gram-ve bacteria and fungi. All the products were assigned with IR, <sup>1</sup>HNMR, Mass Spectra, TLC, and elemental analysis. Some of the products showed moderate activity, compare with known standard drugs.*