

*Supplementary Information*

A novel route for the synthesis of impurities C and G of antihypertensive drug timolol maleate

Mugdha Suryawanshi<sup>a</sup>, Gauri Babhulkar<sup>a</sup>, Bharat Satpute<sup>a</sup>, Tejal Patil<sup>a</sup>, Santosh Chindhe<sup>b</sup>, Deepak Pawar<sup>b</sup>,  
Dileep Kumar<sup>a</sup> & Rajesh Rane<sup>\*a</sup>

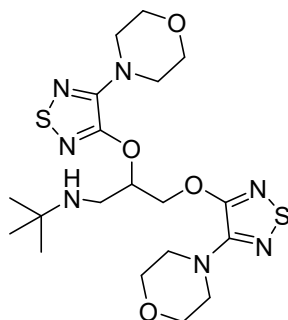
<sup>a</sup> Department of Pharmaceutical Chemistry, BVDU Poona College of Pharmacy, Erandwane, Pune 411 038, India

<sup>b</sup> Chemicea Pharmaceutical Pvt Ltd, MIDC Talaja, Panvel,  
Navi Mumbai 410 208, India

E-mail: mugdha.rs@gmail.com, rajeshrane.uict@gmail.com

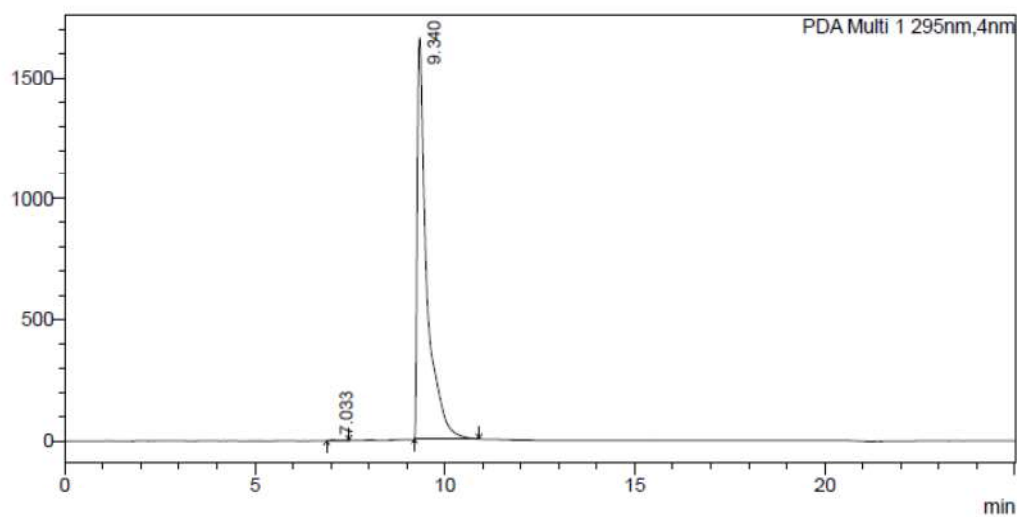
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# HPLC data for Timolol maleate Impurity C



Mobile phase -A :0.1%OPA  
Mobile phase-B : Acetonitrile  
Flow rate :1.0ml/min  
Temperature : 30° C  
Column : C18 150\*4.6 5um  
Gradient program(T/M.P-B) : 0/20,3/20,8/80,18/80,20/20,25/20.  
Sample preparation :10 mg of sample dissolved in10 ml Methanol

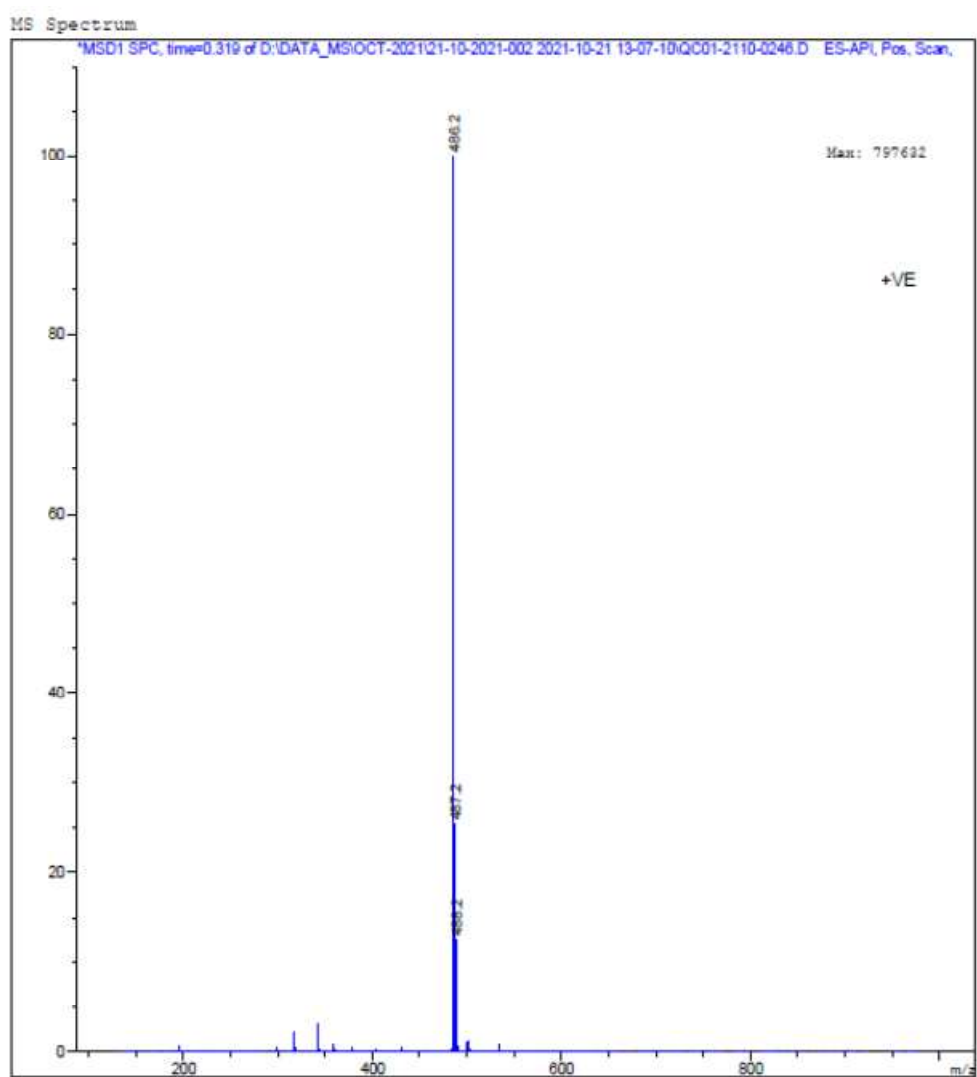
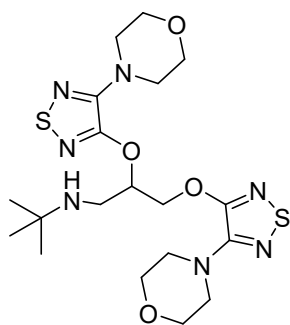
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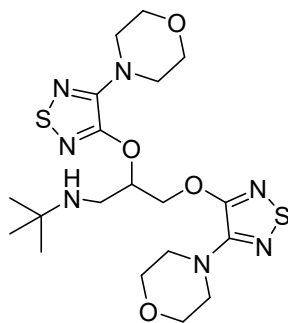
## <Peak Table>

PDA Ch1 295nm				
Peak#	Ret. Time	Area	Height	Area%
1	7.033	53359	4093	0.186
2	9.340	28662371	1658126	99.814
Total		28715730	1662219	100.000

Mass spectrum data for Timolol maleate Impurity C

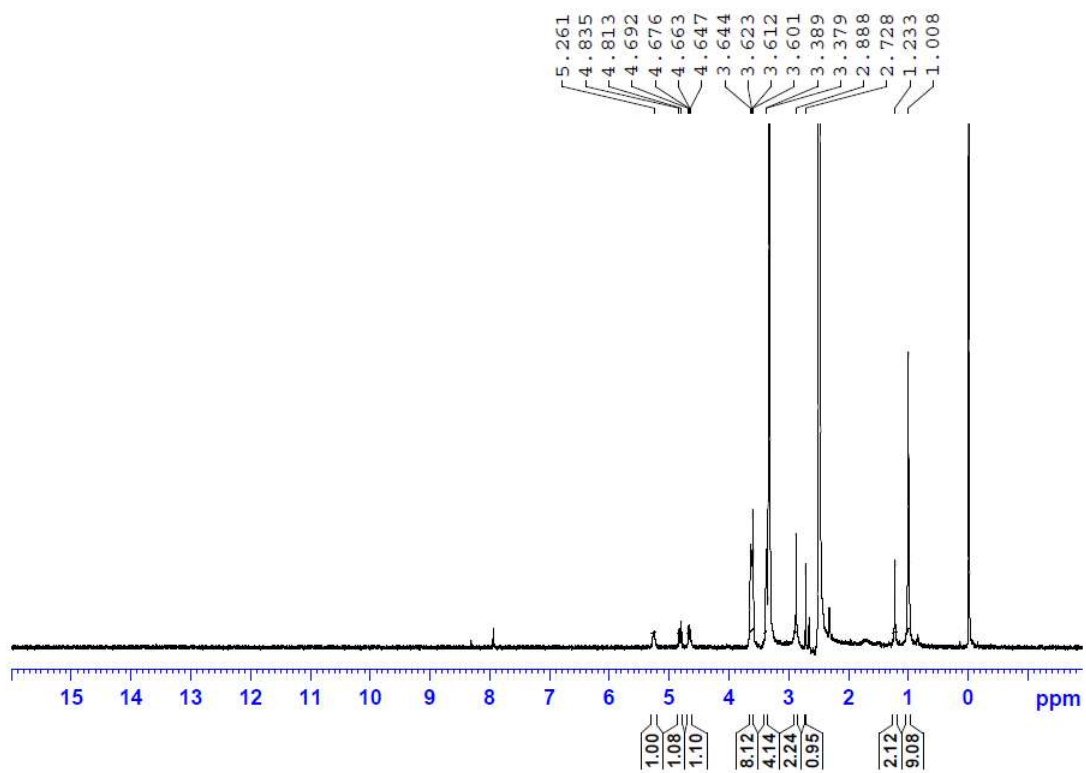


# NMR data for Timolol maleate Impurity C

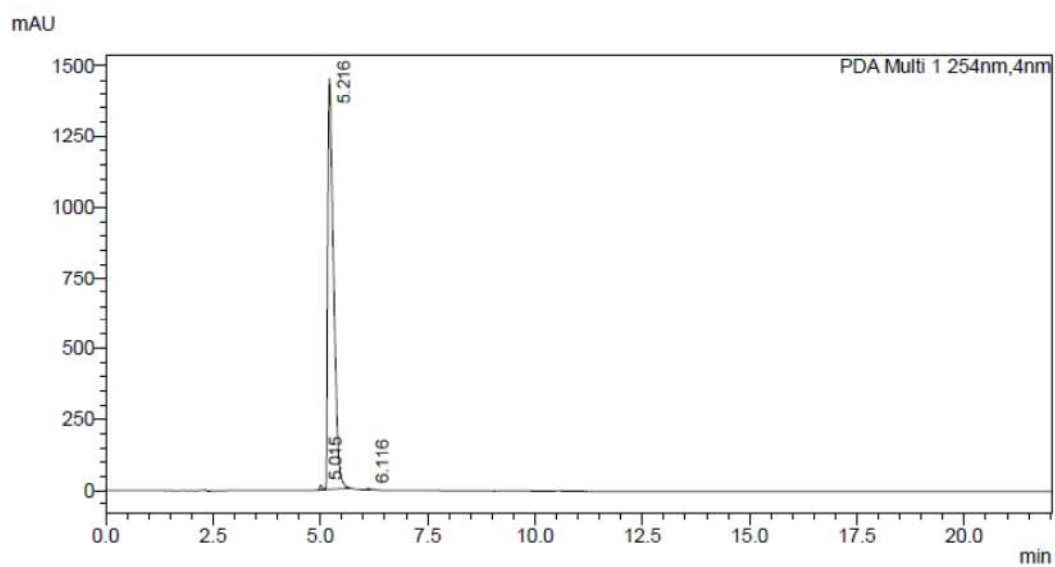
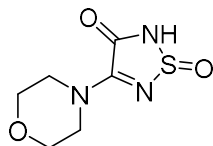


TIMOLOL IMPURITY C

<sup>1</sup>H-NMR/DMSO



# HPLC data for Timolol maleate Impurity G

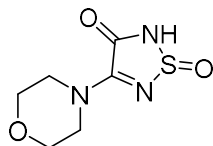


PDA Ch1 254nm

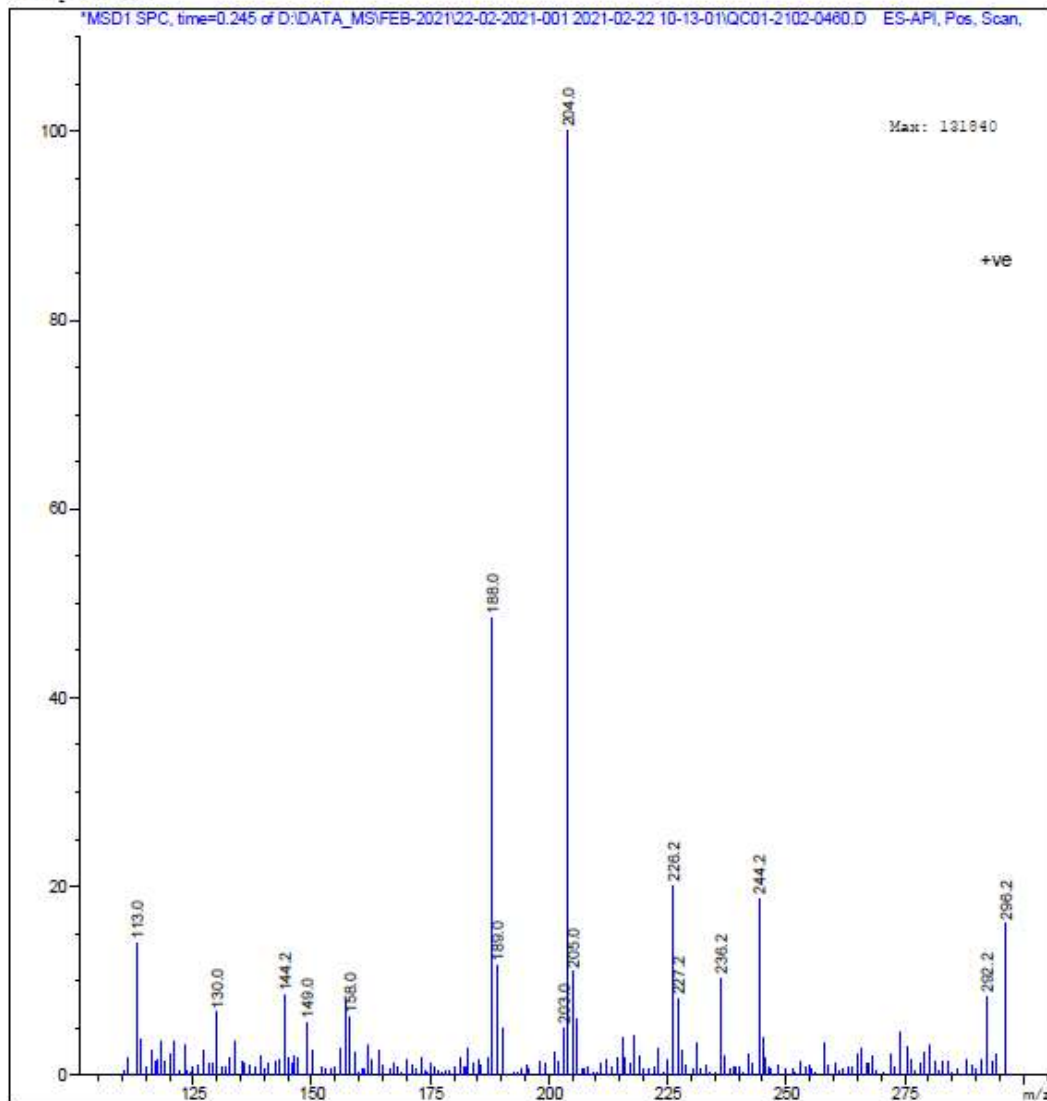
Peak#	Ret. Time	Area	Area%
1	5.015	72726	0.531
2	5.216	13593697	99.328
3	6.116	19213	0.140
Total		13685635	100.000

Peak Table

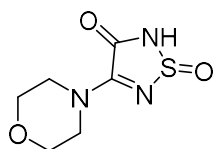
Mass spectrum data for Timolol maleate Impurity G



MS Spectrum



NMR data for Timolol maleate Impurity G



TIMOLOL IMPURITY G

<sup>1</sup>H-NMR/DMSO

