

Table 1.- Antifungal activity of novel compounds synthesized.

Compound	-R	-R ₁	-R ₂	Zone of inhibition in mm (MIC in µg/mL)	
				<i>Aspergillus niger</i> NCCS 1196	<i>Candida albicans</i> NCCS 2106
VIIa	H	CH ₃	C ₆ H ₅	2.25 (55)	1.75(52.5)
VIIb	CH ₃	CH ₃	C ₆ H ₅	1.75(45)	1.25(52.5)
VIIc	OCH ₃	CH ₃	C ₆ H ₅	1.5(52.5)	1.5(52.5)
VIIId	OC ₂ H ₅	CH ₃	C ₆ H ₅	1.5(47.5)	1.25(50)
VIIe	Cl	CH ₃	C ₆ H ₅	1.75(40)	2(120)
VIIIf	Br	CH ₃	C ₆ H ₅	1.75(40)	1.75(42.5)
VIIg	H	CH ₃	CH ₆ C ₆ H ₅	1.25(52.5)	1.25(50)
VIIh	H	CH ₃	ClC ₆ H ₄	2(37.5)	1.75(33.75)
VIIi	H	CH ₃	OCH ₃ C ₆ H ₄	1.5(195)	1.5(>50)
VIIj	H	CH ₃	NO ₂ C ₆ H ₄	1.75(41.25)	1.75(41.25)
IXa	H	H	<i>p</i> -tolyl	2.5(45)	2.25(45)
IXb	H	H	<i>p</i> -anisyl	2.25(47.5)	2(45)
IXc	H	H	<i>p</i> -fluoro phenyl	3.5(35)	3(37.5)
IXd	H	H	<i>p</i> -chloro phenyl	3.25(37.5)	3.5(36.25)
IXe	H	H	<i>p</i> -bromo phenyl	3.25(37.5)	3(37.5)
IXf	H	H	<i>p</i> -nitro phenyl	3.75(32.5)	3.25(36.25)
IXg	H	H	diethyl	2(47.5)	1.75(47.5)
IXh	H	H	di phenyl	2(47.5)	2(47.5)
IXi	H	H	morphonilyl	3.5(35)	3.25(35)
IXj	H	H	Piperizyiny	3.25(37.5)	3(35)
IXk	H	H	<i>N</i> -methyl piperizine	3.25(35)	3.25(32.5)

Table 2.- Antibacterial activity of novel compounds synthesized.

Compound	Zone of inhibition in mm (MIC in µg/mL)			
	<i>Staphylococcus aureus</i> NCCS 2079	<i>Bacillus Cereus</i> NCCS 2106	<i>Escherichia coli</i> NCCS2065	<i>Pseudomonas aeruginos</i> NCCS 2200
VIIa	1.5(50)	1.25(52.5)	1.25(52.5)	1.75(45)
VIIb	1.5(50)	1.25(52.5)	1(55)	1.5(50)
VIIc	1(50)	1.25(50)	1(55)	1.25(52.5)
VIIId	2(42.5)	1.5(47.5)	1(50)	1.75(47.5)
VIIe	2(31.25)	2.25(35)	1.5(47.5)	2(32.5)
VIIIf	1.75(35)	2(35)	1.5(45)	1.25(47.5)
VIIg	1(55)	1.25(55)	1(60)	1.25(60)
VIIh	2(31.25)	2(36.25)	1.5(40)	1.75(32.5)
VIIi	1(50)	1.5(47.5)	1.5(45)	1.25(50)
VIIj	1.75(33.75)	2(35)	1.5(38.75)	1.75(41.25)
IXa	1.5(52.5)	1.75(57.5)	1.25(57.5)	1.5(60)
IXb	1.75(50)	1.5(52.5)	1.5(55)	1.25(57.5)
IXc	2.5(36.25)	2.75(38.75)	2.25(38.75)	2.5(38.75)
IXd	3(35)	2.5(38.75)	2.25(38.75)	2.75(36.25)
IXe	2.5(37.5)	2.75(38.75)	2(40)	2.25(37.5)
IXf	2.75(36.25)	2.5(38.75)	2.5(35)	2.5(35)
IXg	1.75(50)	2(52.5)	1.5(57.5)	5(57.5)
IXh	1.75(50)	1.75(50)	5(60)	1.5(55)
IXi	2.5(37.5)	3(35)	2.5(37.5)	2.75(35)