

A Comprehensive *in vitro* and *in silico* Assessment of Eugenol Glycoconjugates against Azole and

Amphotericin B Resistant *Rhizopus delemar* var *arrhizus*

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Supplementary Table 1: Minimum Inhibitory Concentration (MIC) of Itraconazole (ITR), Posaconazole (POS), and Amphotericin B (AmpB) antifungals against *R. delemar* and *R. arrhizus* isolates using 96 well micro-broth dilution assay.

Isolates	ITR (µg/mL)	POS (µg/mL)	AmpB (µg/mL)
S4	0.25	0.25	4
MS	8	16	64
GM	2	8	64
YV	2	0.5	16
S40	16	32	32
VA2	32	4	64
AG4B	32	32	8

Supplementary Table 2: Minimum Inhibitory Concentration (MIC) of Itraconazole (ITR), Posaconazole (POS), and Amphotericin B (AmpB) antifungals against *R. delemar* and *R. arrhizus* isolates using 96 well micro-broth dilution assay.

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Supplementary Table 3: ADME tox study of compound 6g using SwissADME software.

S. No.	Property	Criterion	Compound 6g
1.	Molecular weight	< 500 g/mol	505.52 g/mol
2.	Hydrogen donor	< 6.0	00
3.	Hydrogen acceptor	< 5.0	11
4.	Rotational bonds	< 10.0	9
5.	Topological Polar Surface Area (TPSA)	< 140 Å ²	117.59 Å ²
6.	Log P (lipophilicity)	< 5	0.83
7.	Log S (Solubility)	-	-4.55
8.	Bioavailability Score	-	0.17
9.	Lipinski Violations	-	2
10.	Ghose Violations	-	2
11.	Veber Violations	-	-
12.	Egan Violations	-	-
13.	Muegge Violations	-	1

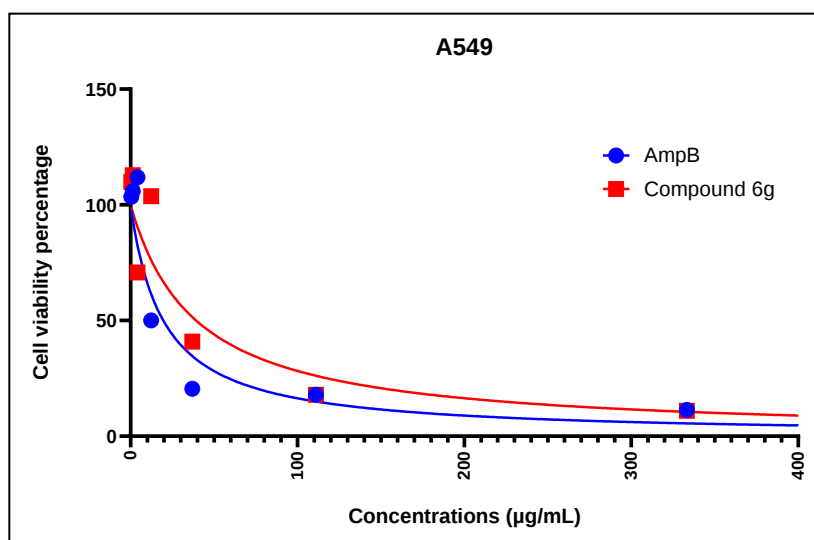


(A)



(B)

Supplementary Fig. 1 Colony morphology and microscopic examination of *Rhizopus spp* isolates. (A) Colony morphology on potato dextrose agar 48 h; (B) Microscopic image of sporangia and sporangiophore at 40x magnification



Supplementary Fig. 2 Cell viability percentage of Cell line A549 using 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide (MTT) assay for compound 6g and amphotericin B (AmpB). A459 cells were treated with different concentrations (0 to 1000 µg/ml) of the compound for 24 h. Values represent the percentage calculated using 95% confidence interval. Each test was performed in triplicate