

Lipocarbazoles, Secondary Metabolites from *Tsukamurella pseudospumae* Acta 1857 with Antioxidative Activity

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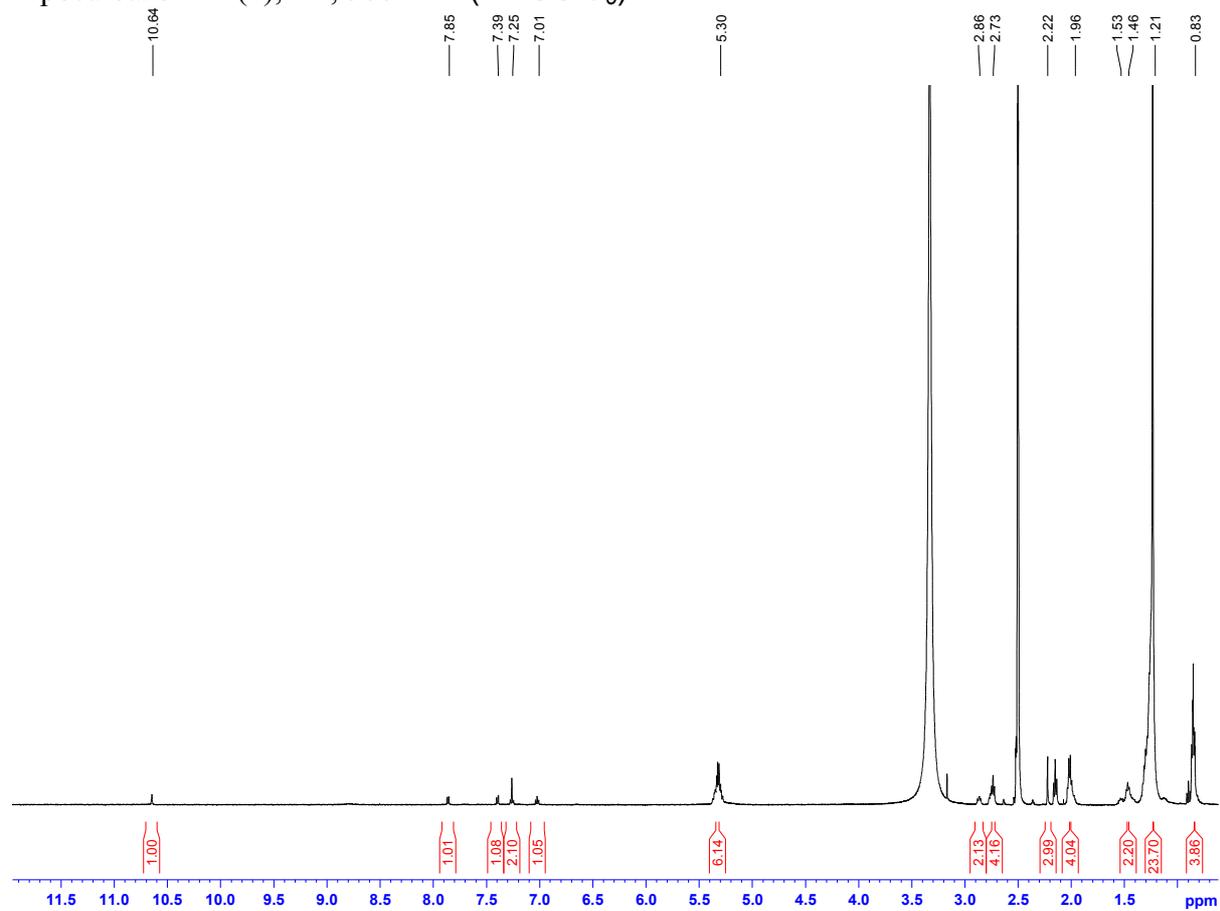
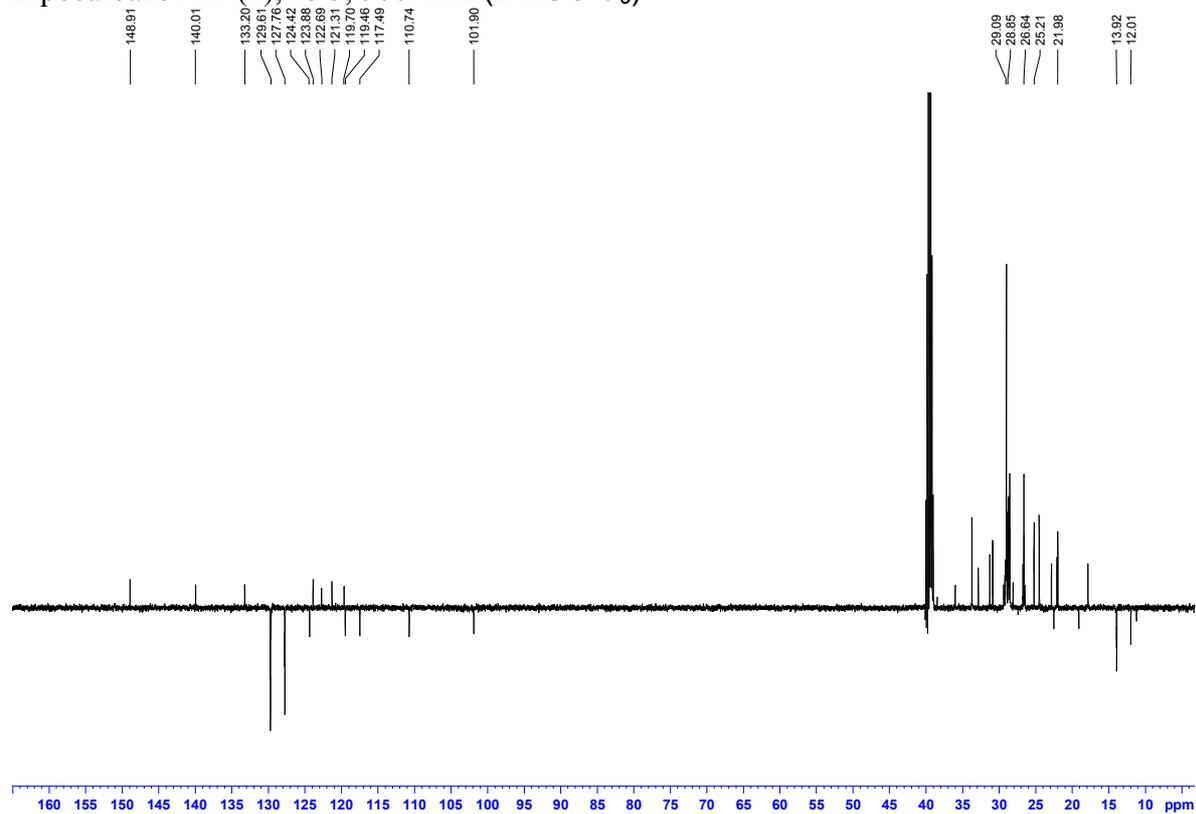
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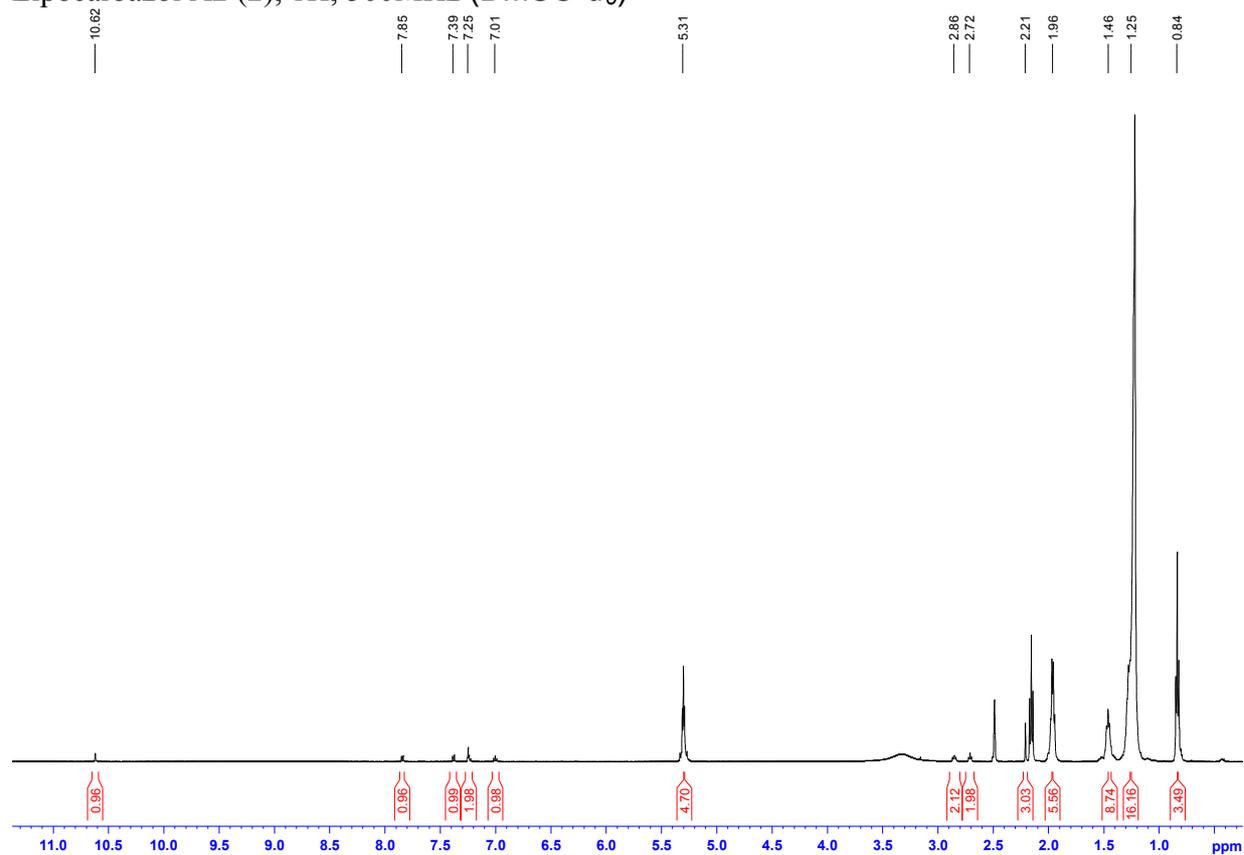
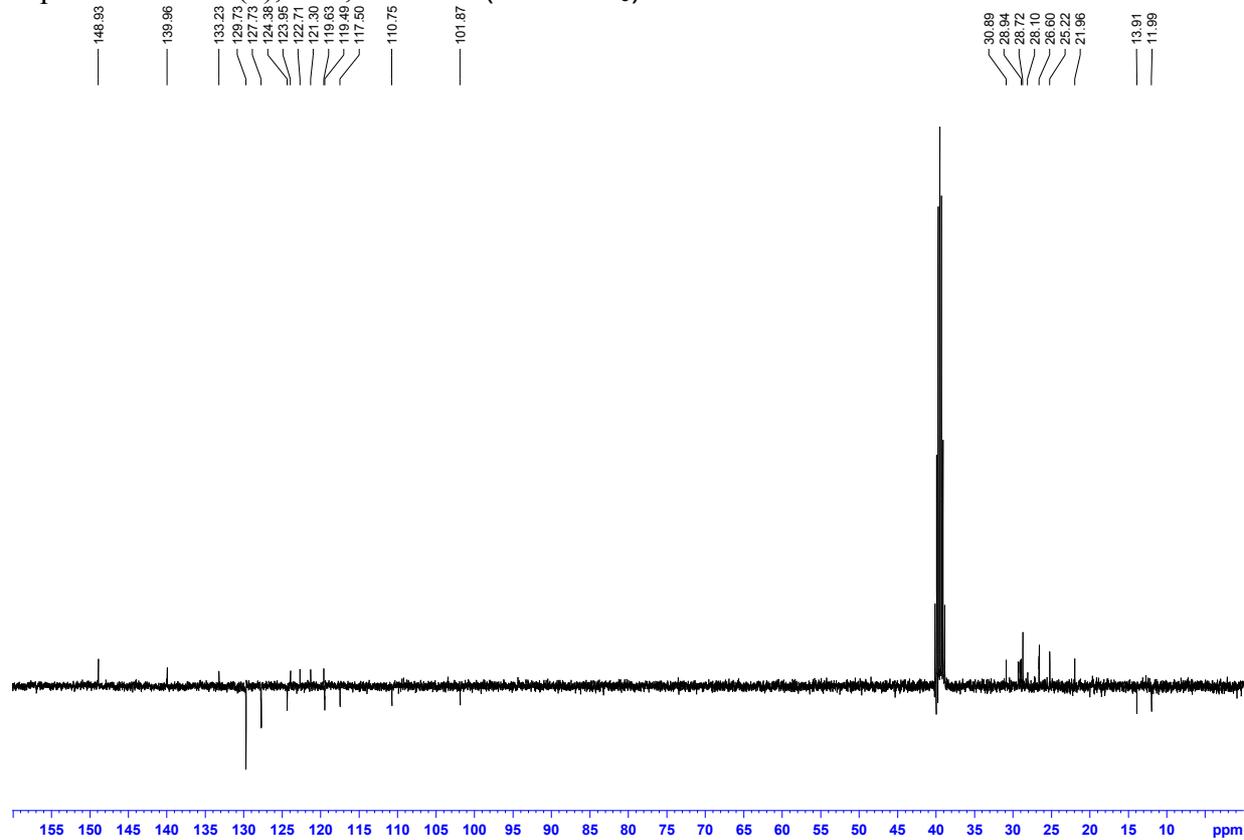
Supporting Information

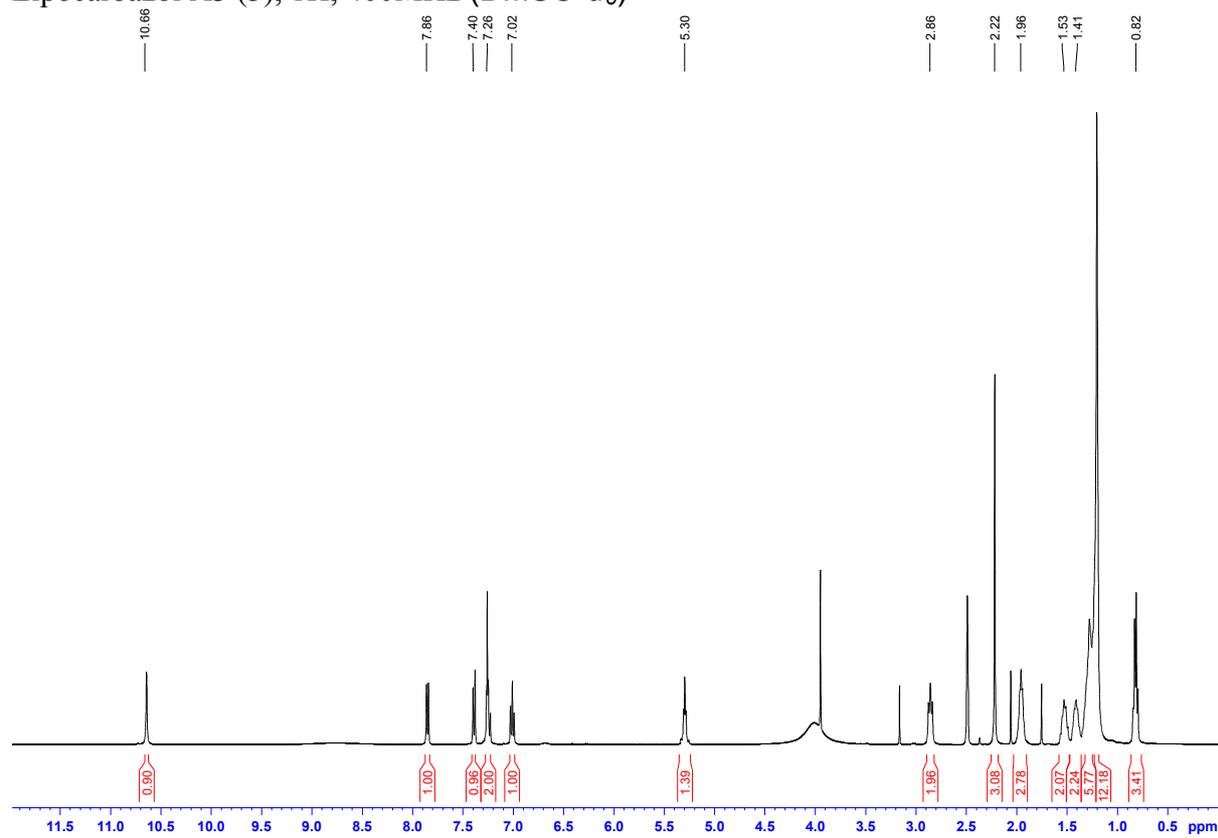
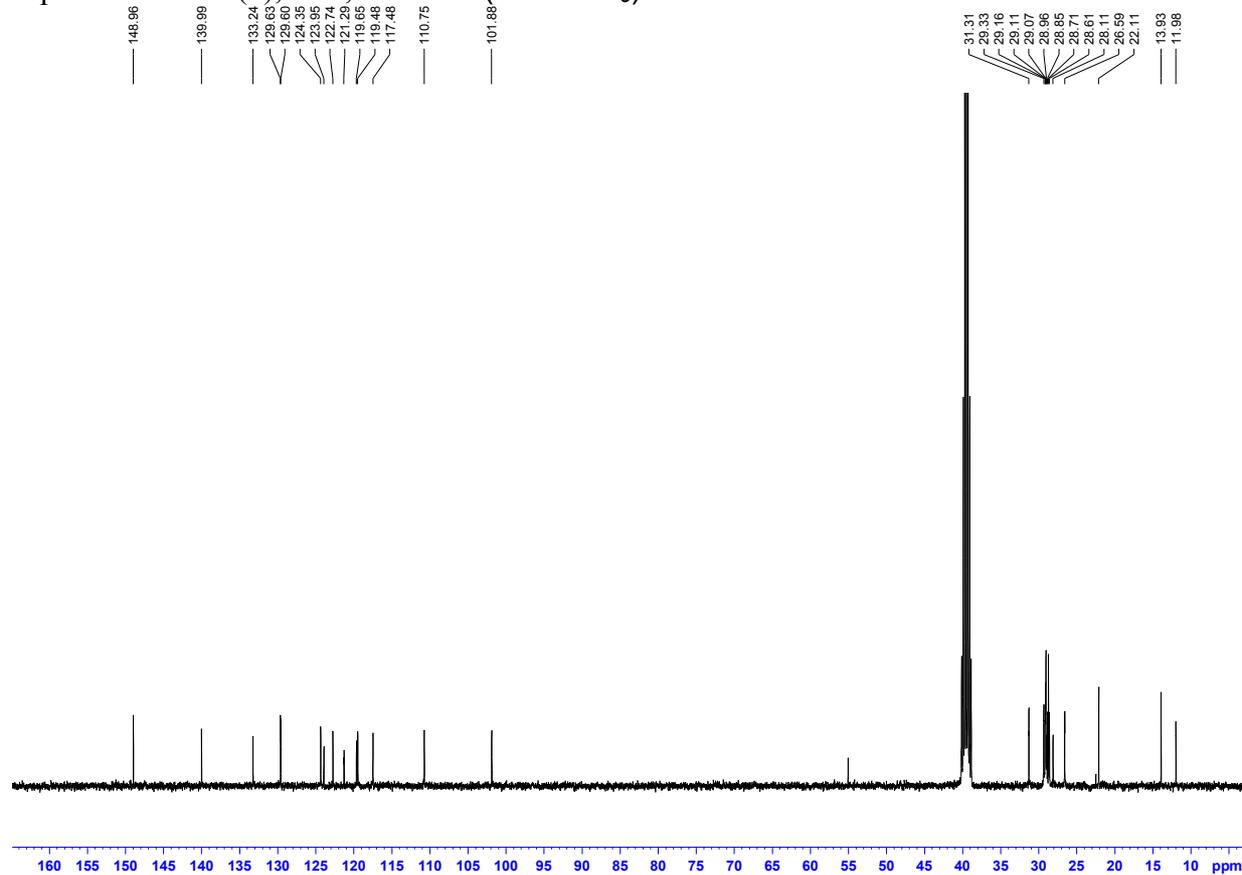
Antibacterial and antifungal activity spectrum of lipocarbazoles.....	S1
NMR spectroscopic data.....	S2

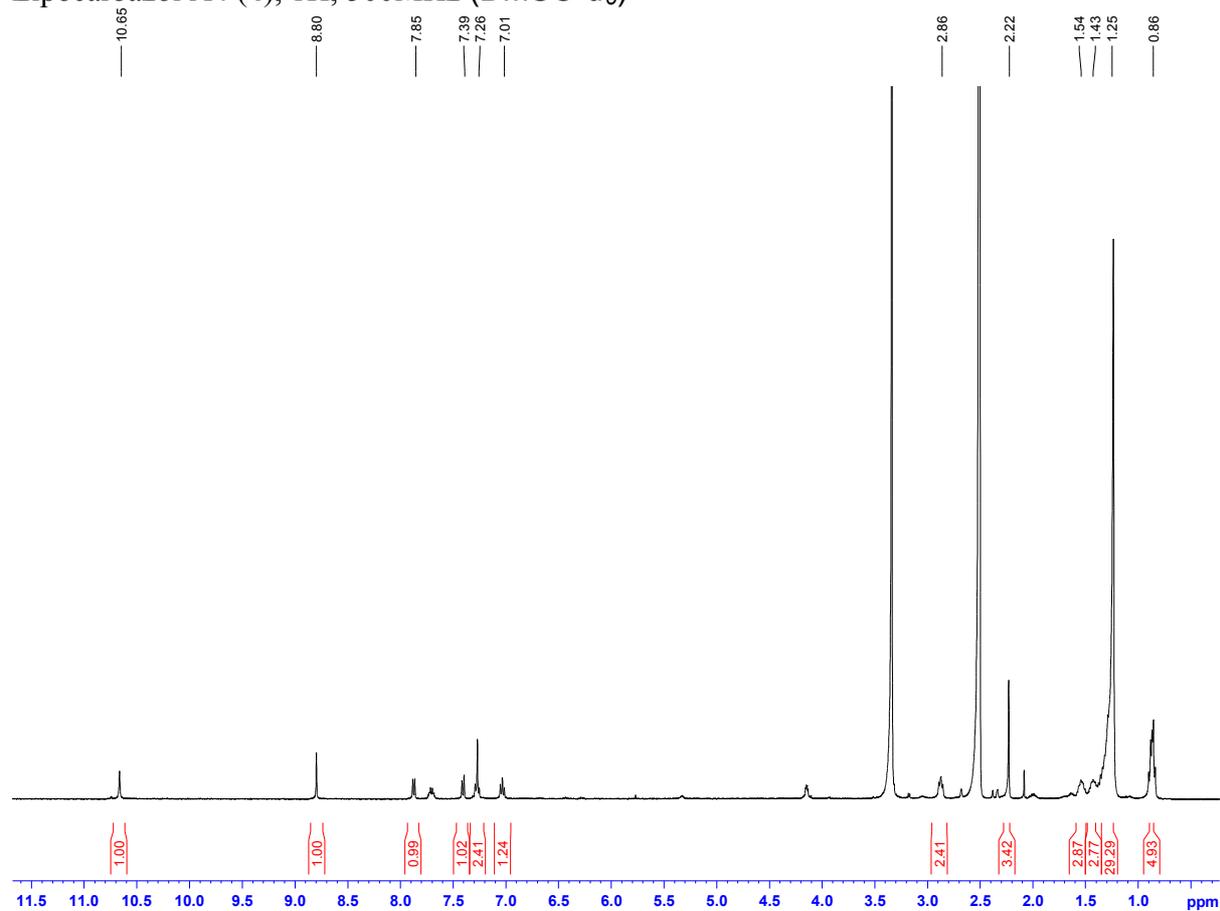
S1. Antibacterial and antifungal activity spectrum: An agar plate diffusion assay was used to determine the antibacterial and antifungal properties of lipocarbazoles using *Arthrobacter aurescens* DSM 20166, *Bacillus subtilis* DSM 10, *Brevibacillus brevis* DSM 30, *Staphylococcus aureus* DSM 20231 and *Streptomyces viridochromogenes* Tü 57 (Gram-positive bacteria), *Escherichia coli* K12, *Pseudomonas fluorescens* DSM 50090 and *Proteus mirabilis* ATCC 35501 (Gram-negative bacteria). The yeasts and filamentous fungi examined were *Candida albicans* Tü 164, *Saccharomyces cerevisiae* ATCC 9080, *Botrytis cinerea* Tü 157 and *Penicillium notatum* Tü 136. 10 µl of the samples were applied to filter paper disks (6 mm diameter), which were added to inoculated test plates that were incubated for 24 h (bacteria) and 48 h (fungi) at temperatures that ensured the optimal growth of the test organisms.

S2.

Lipocarbazol A1 (**1**), ¹H, 500MHz (DMSO-*d*₆)Lipocarbazol A1 (**1**), ¹³C, 500MHz (DMSO-*d*₆)

Lipocarbazol A2 (**2**), ¹H, 500MHz (DMSO-*d*₆)Lipocarbazol A2 (**2**), ¹³C, 500MHz (DMSO-*d*₆)

Lipocarbazol A3 (**3**), ¹H, 400MHz (DMSO-*d*₆)Lipocarbazol A3 (**3**), ¹³C, 400MHz (DMSO-*d*₆)

Lipocarbazol A4 (4), ¹H, 500MHz (DMSO-*d*₆)Lipocarbazol A4 (4), ¹³C, 500MHz (DMSO-*d*₆)