

Supplementary information for:

The antifungal activity of vapour phase of odorless thymol derivate

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Kubicin - trimethyl[5-methyl-2-(1-methylethyl)phenoxy]-silane (synonyms; TMS-thymol derivate, thymol trimethylsilyl ether); CAS#: 55012-80-1; Formula: C₁₃H₂₂OSi; Exact Mass: 222.1439

Table S.1 Linear retention indices I_p of thymol and kubicin measured in five different capillary columns in order of increasing stationary phase polarity.

GC column	I_p	
	Thymol	Kubicin
SPB-1	1272.6	1313.5
DB-5	1292.0	1308.3
DB-17	1487.4	1410.2
DB-23	2052.0	1510.1
DB-WAX	2202.9	1305.5

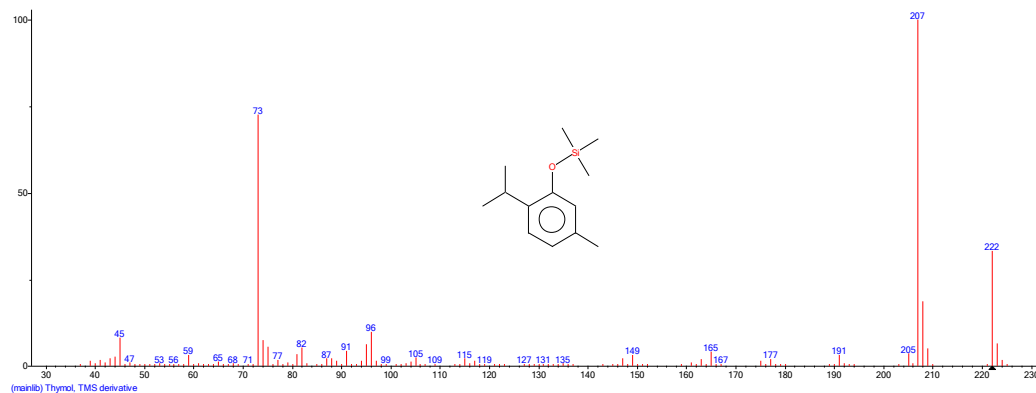
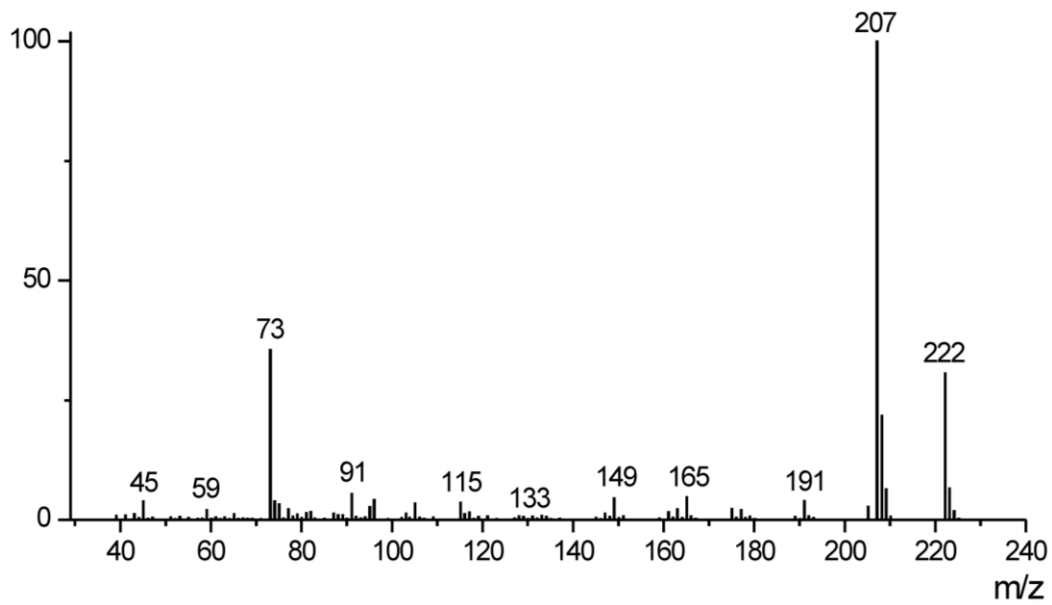


Fig. S.1 MS spectrum of kubicin (up – measured, bottom – NIST17 MS library, similarity 982)

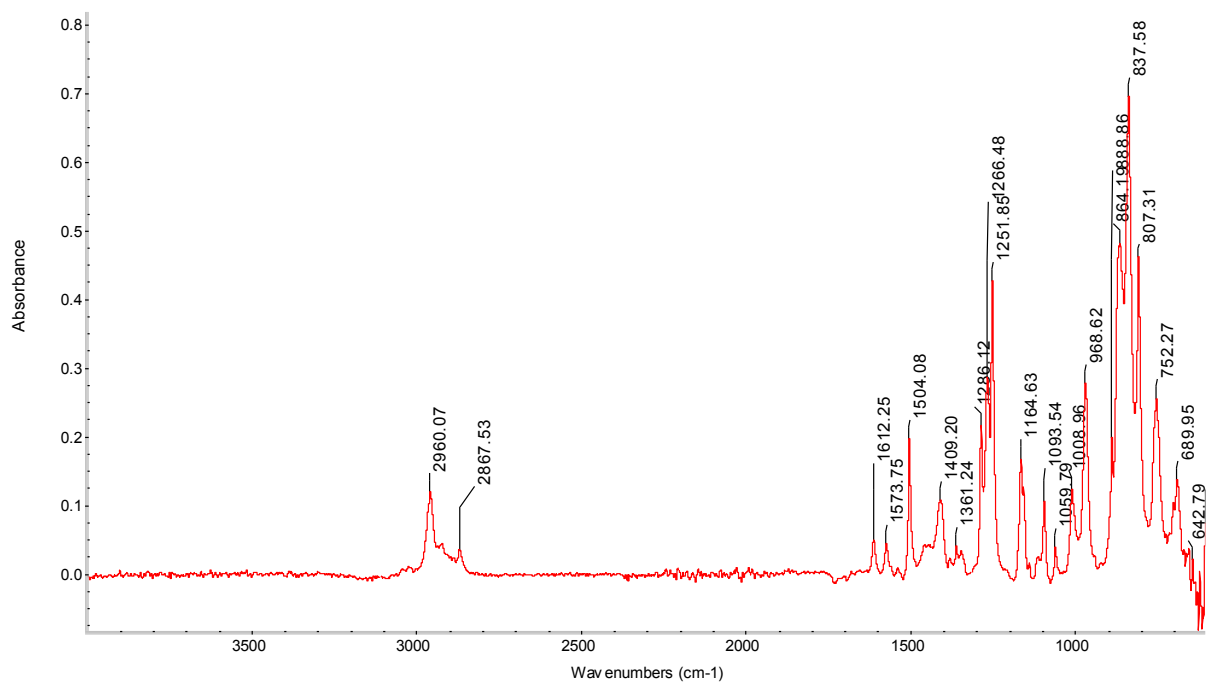


Fig. S.2 FTIR spectrum of kubicin

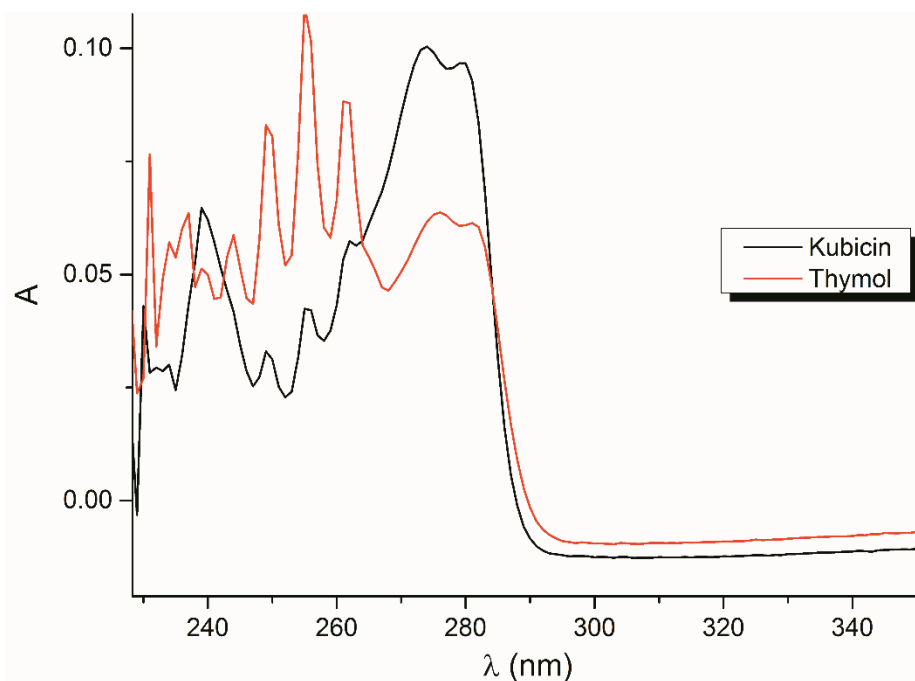


Fig. S.3 UV-VIS spectra of kubicin and thymol (10^{-4} mol.dm⁻³ in chloroform)

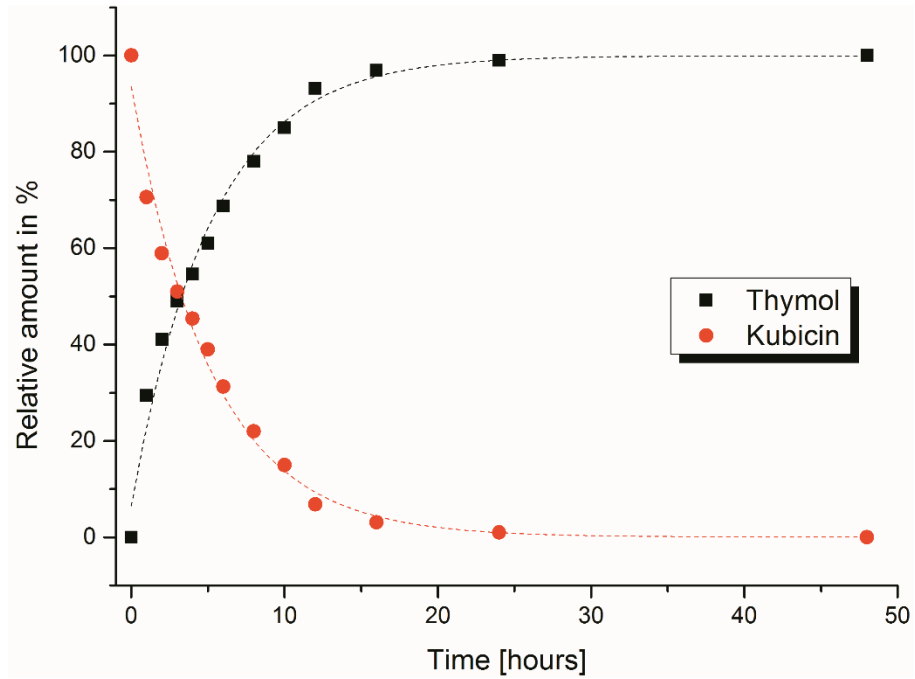


Fig. S.4 Stability time dependence of kubicin dissolved in DMSO (non-dried).

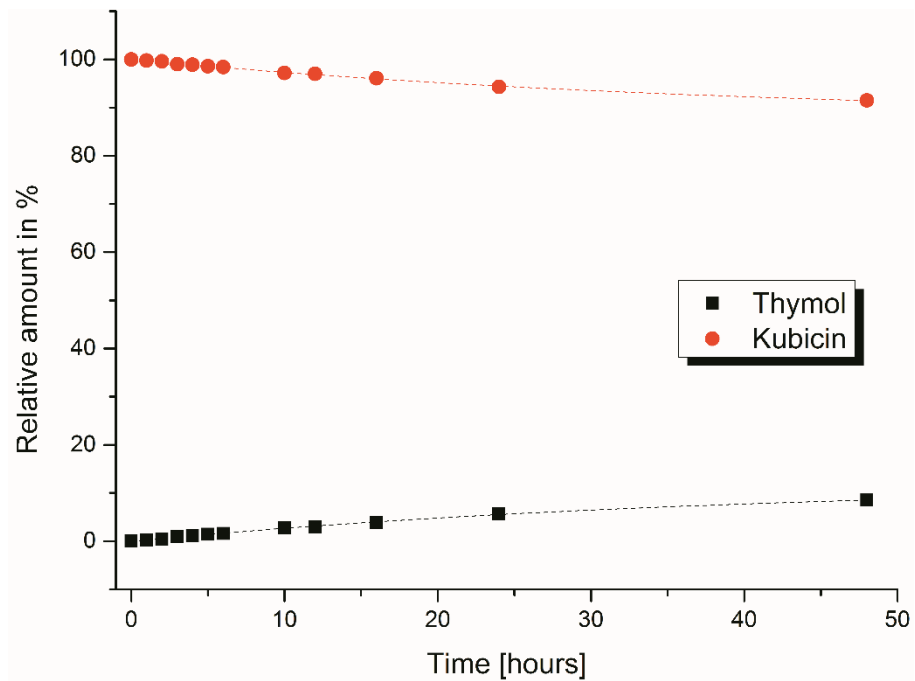


Fig. S.5 Stability time dependence of kubicin dissolved in dried DMSO.

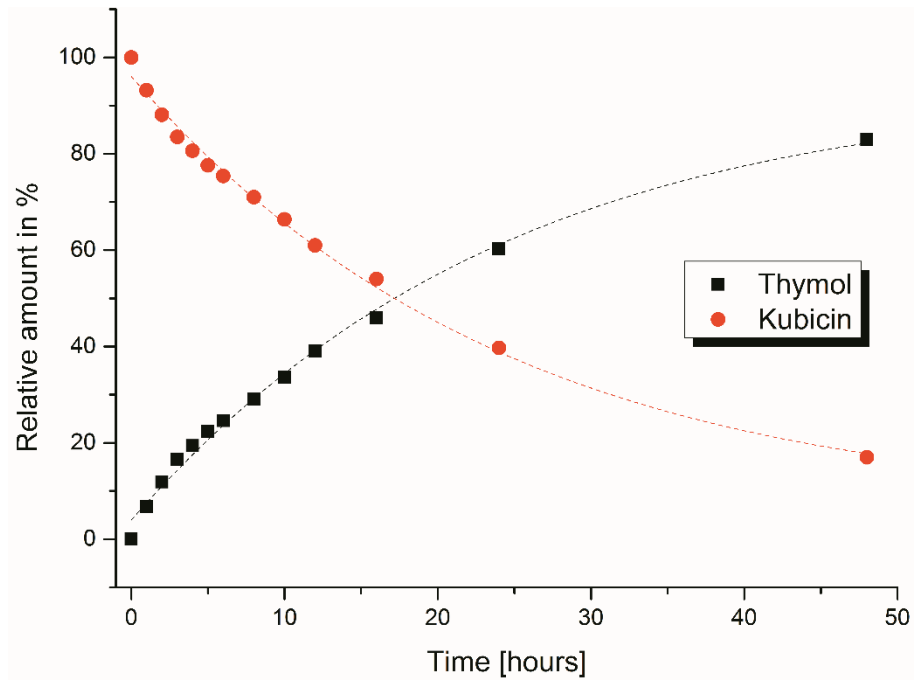


Fig. S.6 Stability time dependence of kubicin dissolved in methanol (non-dried).

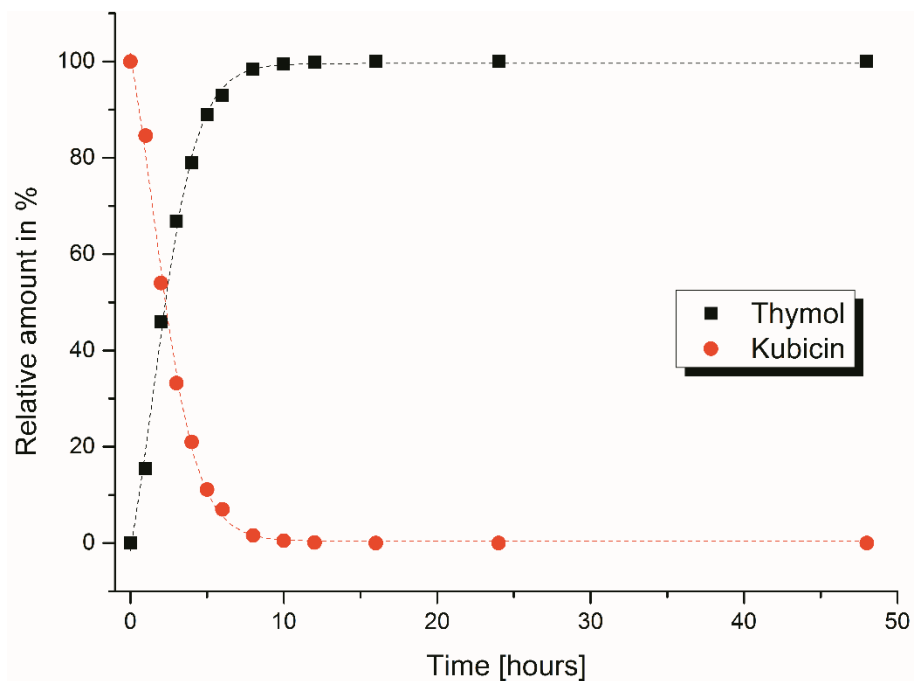


Fig. S.7 Stability time dependence of kubicin dissolved in dried methanol.

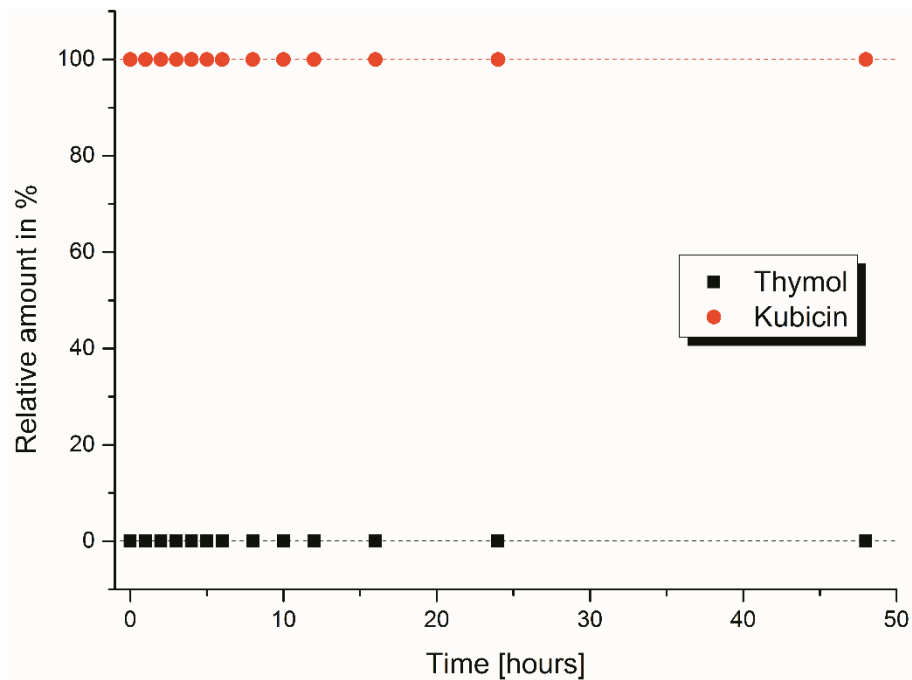


Fig. S.8 Stability time dependence of kubicin dissolved in acetone.

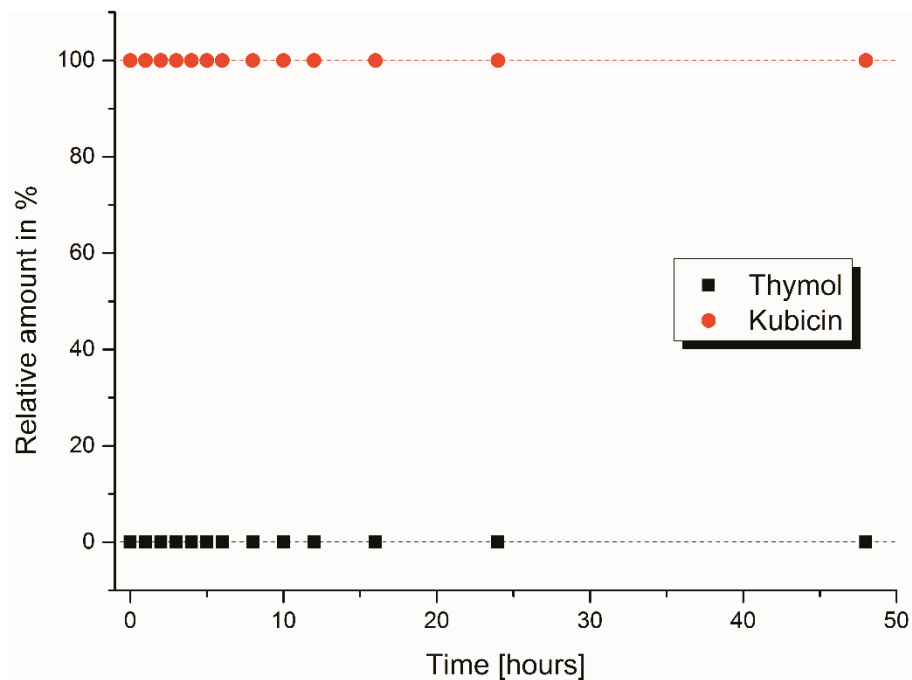


Fig. S.9 Stability time dependence of kubicin dissolved in acetonitrile.

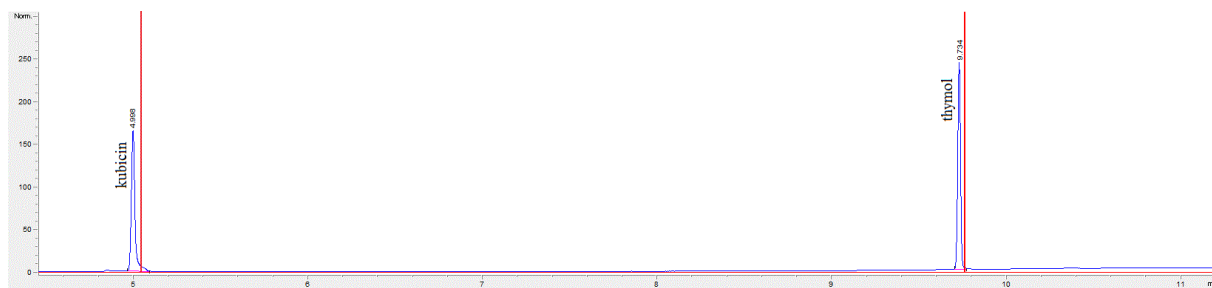


Fig. S.10 GC-O analysis for determination of odour threshold concentration of kubicin; (concentrations of kubicin and thymol in analysed mixture were 10 mg.mL^{-1} acetone). FID chromatogram and aromagram (red verticals) are overlaid.