Supporting Information

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Synthesis, spectral characterization, antimicrobial activity and docking studies against DNA Gyrase-A of new 4-chloro-3-nitrobenzene sulfonamide derivatives

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Table S1: Antibacterial activity of synthesised compounds **3(a-j)**

Product	Zone of Inhibition in mm			
	P. aeruginosa	***K. pneumoniae***	***E. coli***	***S. aureus***
3a	12	15	14	15
3b	14	06	09	10
3c	25	28	20	20
3d	**28**	**25**	**26**	**23**
3e	**26**	**25**	**22**	**24**
3f	**29**	**24**	**28**	**26**
3g	15	08	13	10
3h	16	18	12	15
3i	17	14	16	15
3j	15	10	12	14
Std.	35	38	40	30

P. aeruginosa: Pseudomonas aeruginosa, K. pneumoniae: Klebsiellapneumoniae, E. coli: Escherichia coli, S. aureus: Staphylococcus aureus, Stand: Chloramphenicol.Concentration at 100 µg/mL.

Table S2 : Antifungal activity of synthesized compounds **3 (a-j)**

Product	Zone of Inhibition in mm			
	A. niger	***T. viride***	***A. flavus***	***P. chrysogenum***
3a	08	09	10	08
3b	09	11	09	10
3c	15	12	11	09
3d	12	10	09	10
3e	13	11	10	11
3f	**16**	**12**	**11**	**12**
3g	12	10	08	09
3h	10	08	09	10
3i	09	10	09	11
3j	15	08	10	09
Std.	18	16	13	14

A.niger: Aspergillus niger, T. viride: Trichoderma viride, A. flavus: *Aspergillus flavus, P. chrysogenum: Penicillium chrysogenum, Stand:* nystatin. Concentration at 100 µg/mL.

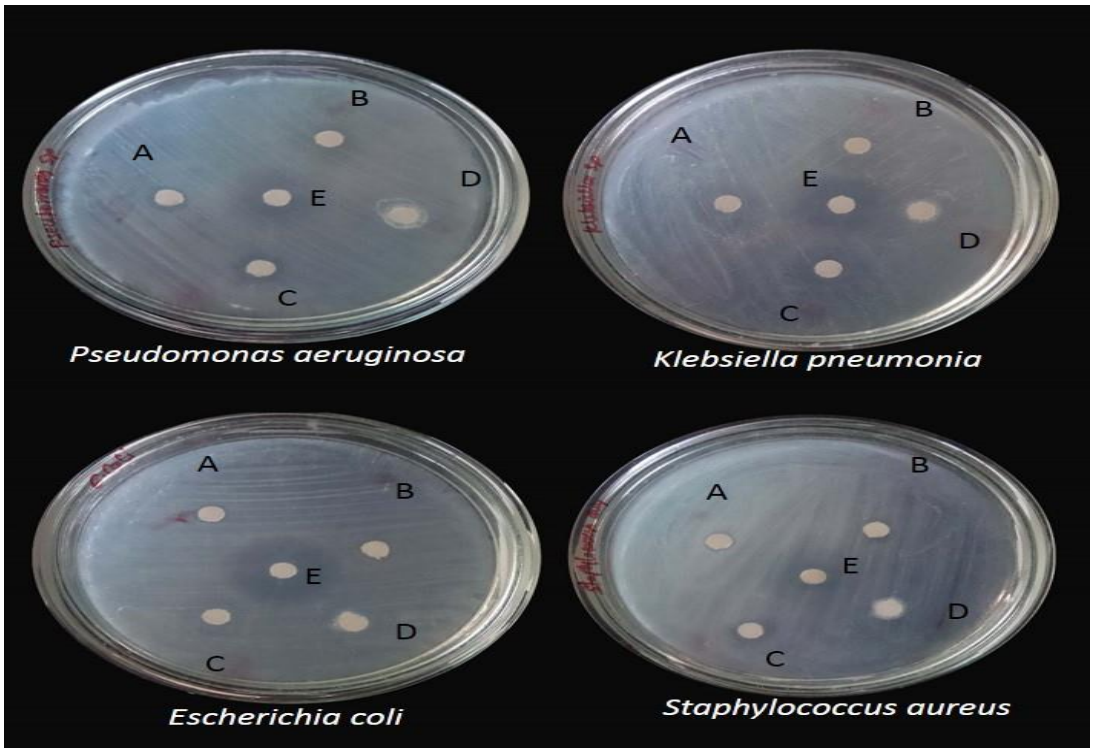

Figure S1: Antibacterial activity of the newly synthesised compounds

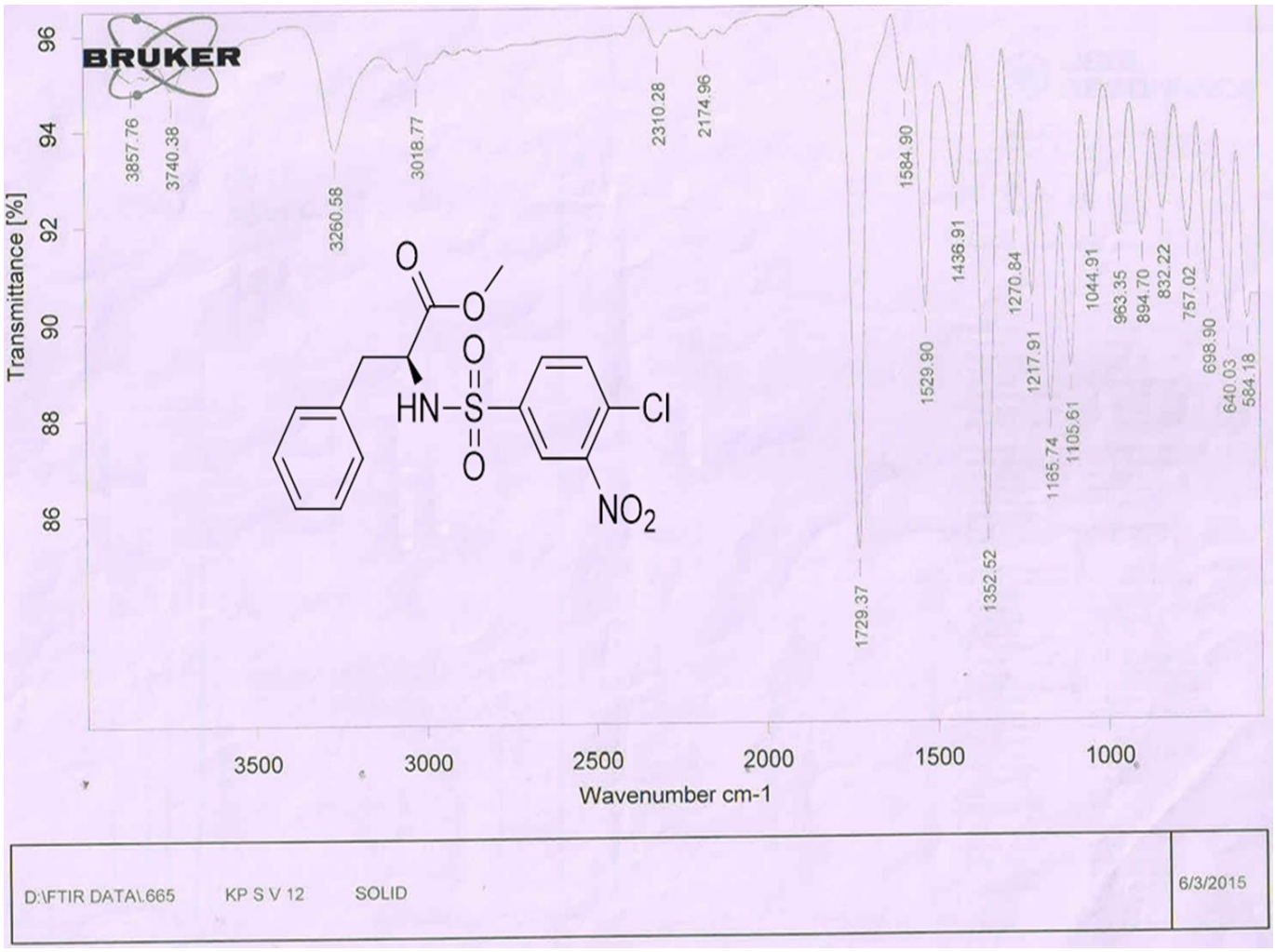

Figure S2: IR spectrum of compound **3b**

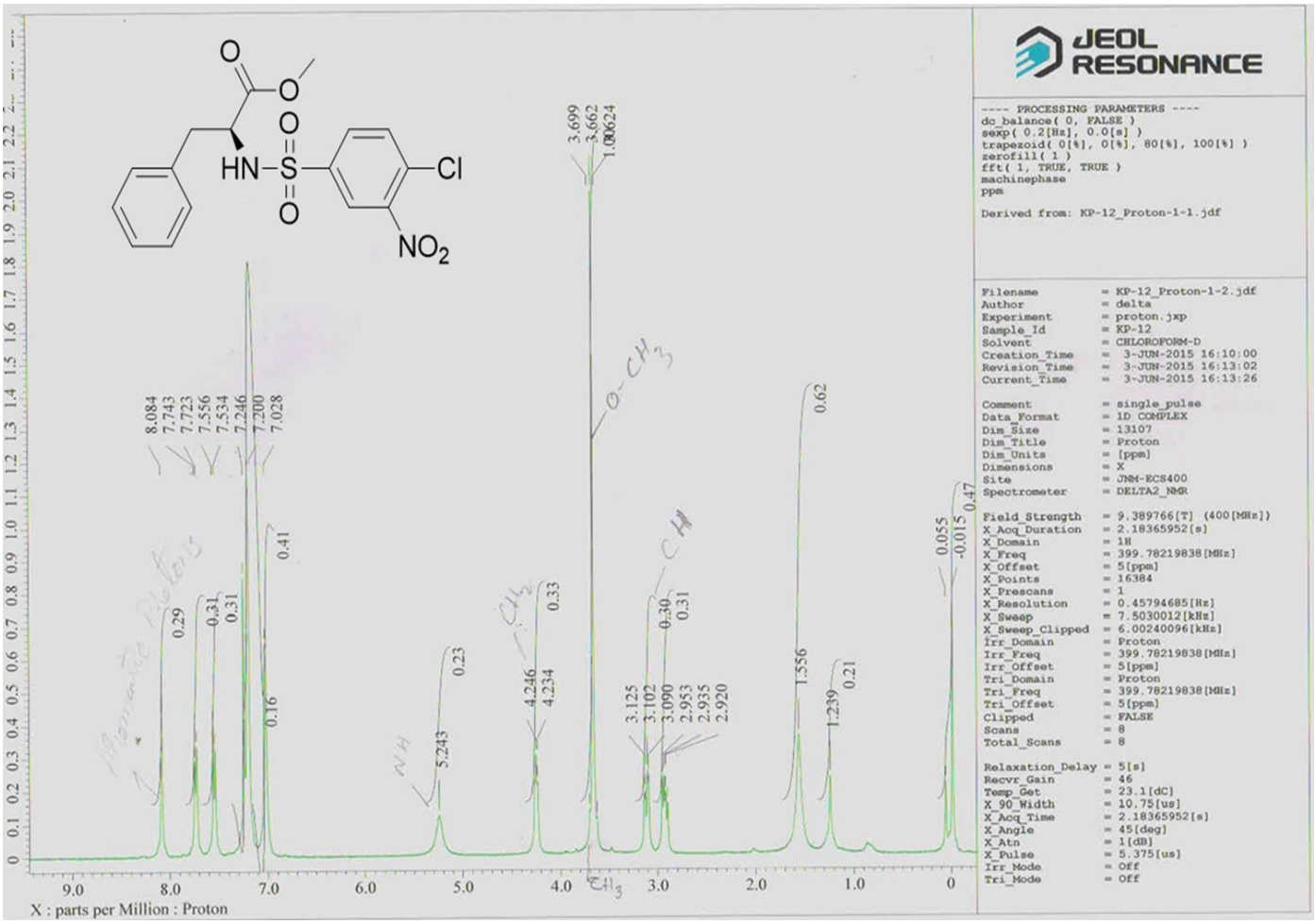

Figure S3: ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **3b**

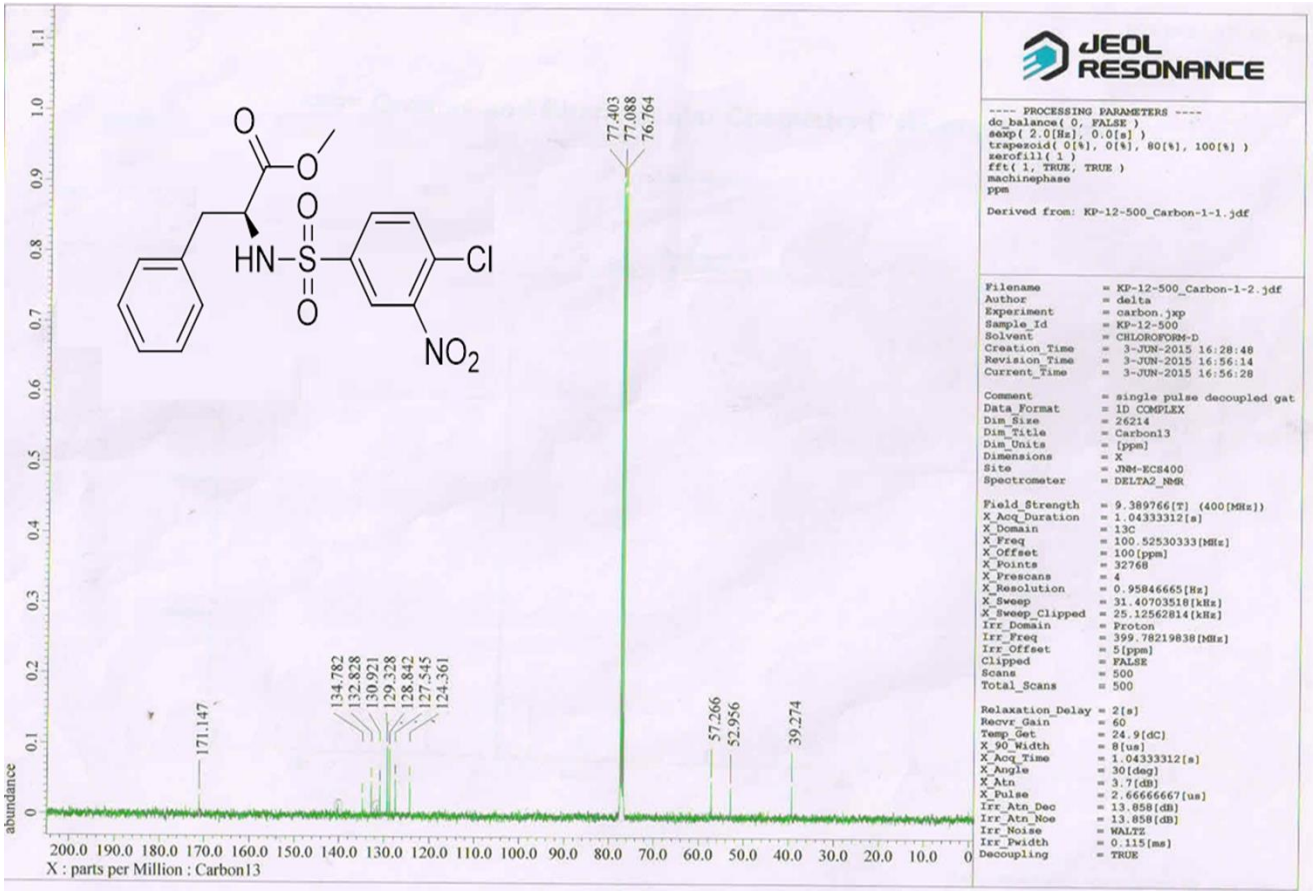

Figure S4: ^{13}C-NMR (100 MHz, $CDCl_3$) Spectrum of compound **3b**

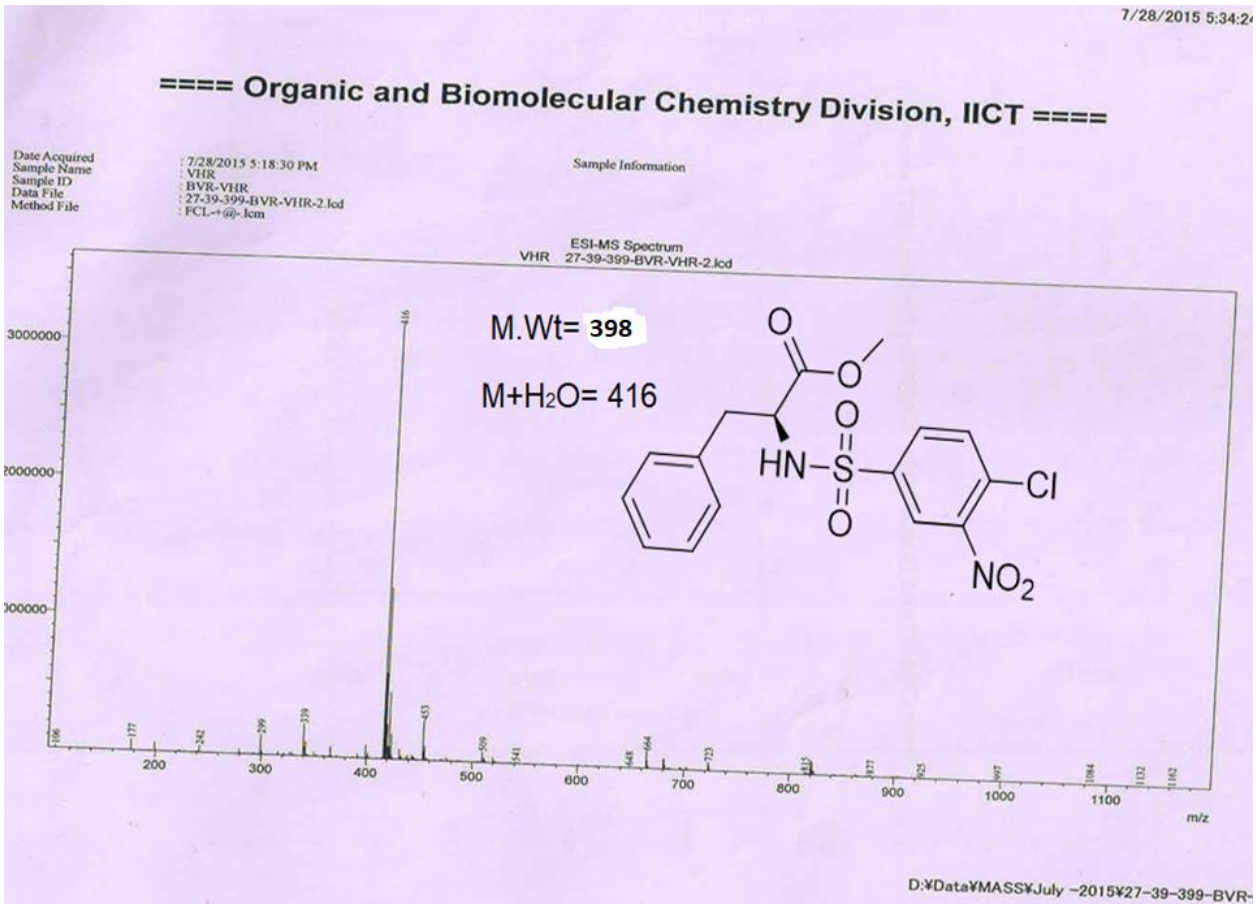

Figure S5: ESI-MS of compound **3b**