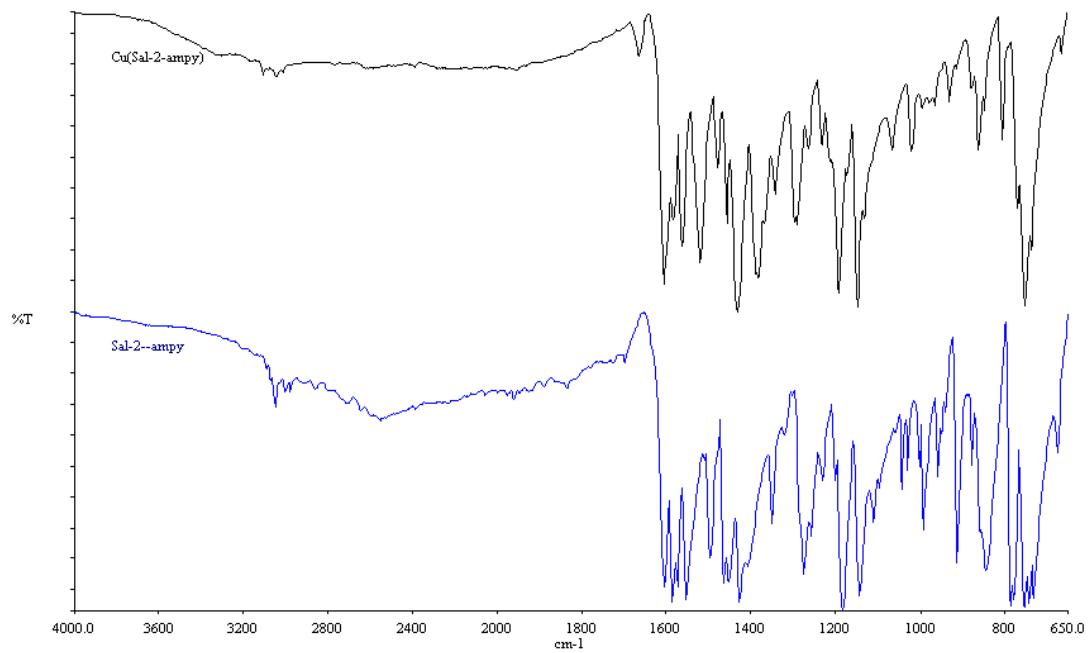


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SUPPLEMENTARY MATERIALS FOR THE COMPOUNDS

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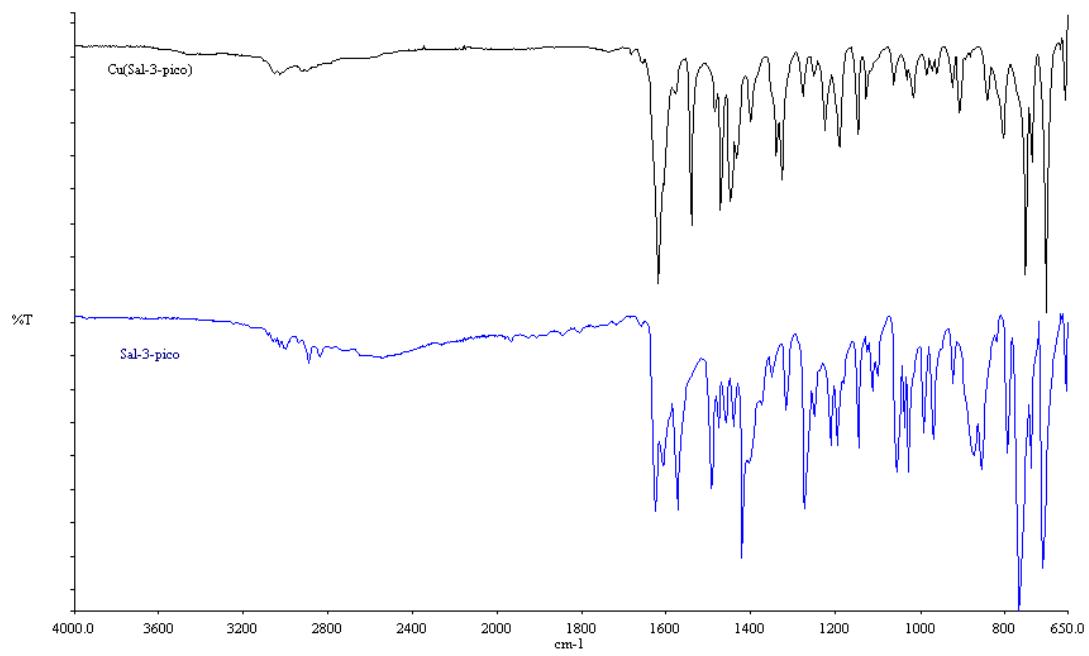


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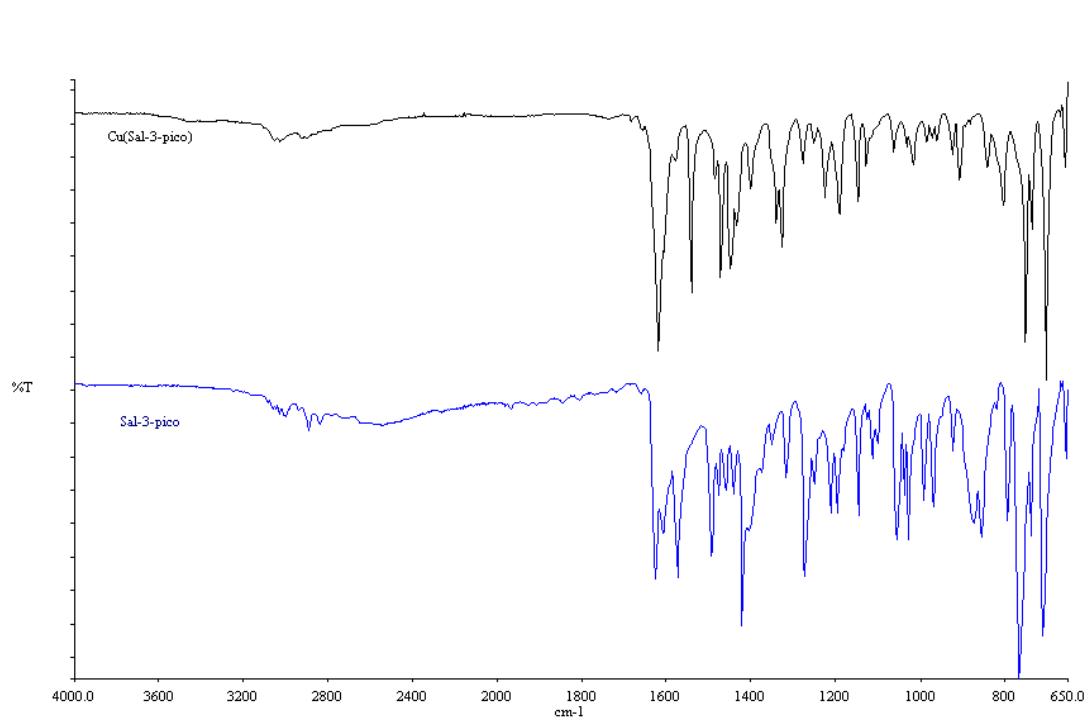
5 **Figure 1: Mid-infrared spectra for ligand L^1 and $Cu(L^1)_2Cl_2$.**

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9 **Figure 2: Mid-infrared spectra for ligand L^2 and $Cu(L^2)_2Cl_2, \gamma 2H_2O$**

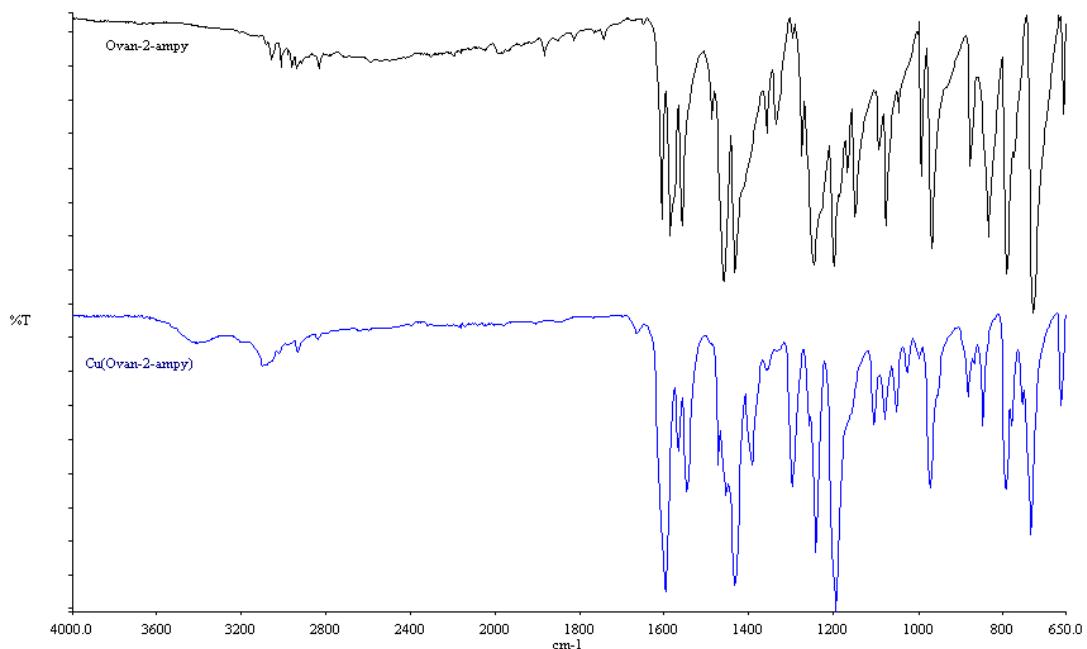


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12 **Figure 3: Mid-infrared spectra for ligand L^3 and $Cu(L^3)_2Cl_2, \gamma 2H_2O$**

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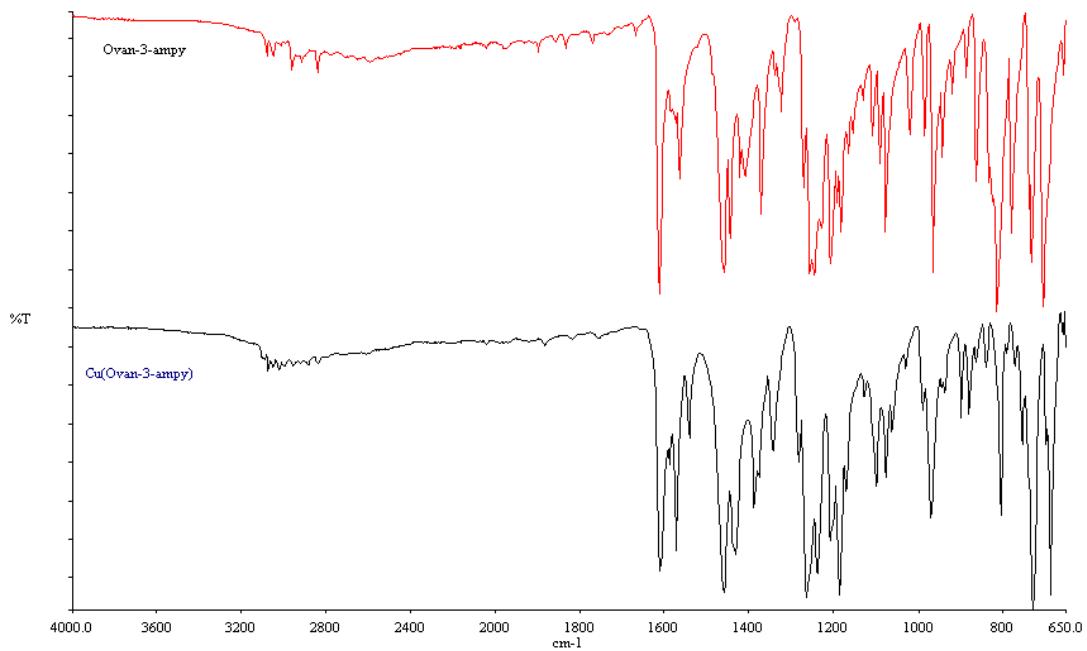
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Figure 4: Mid-infrared spectra for ligand L^4 and $Cu(L^4)Cl_2 \cdot H_2O$



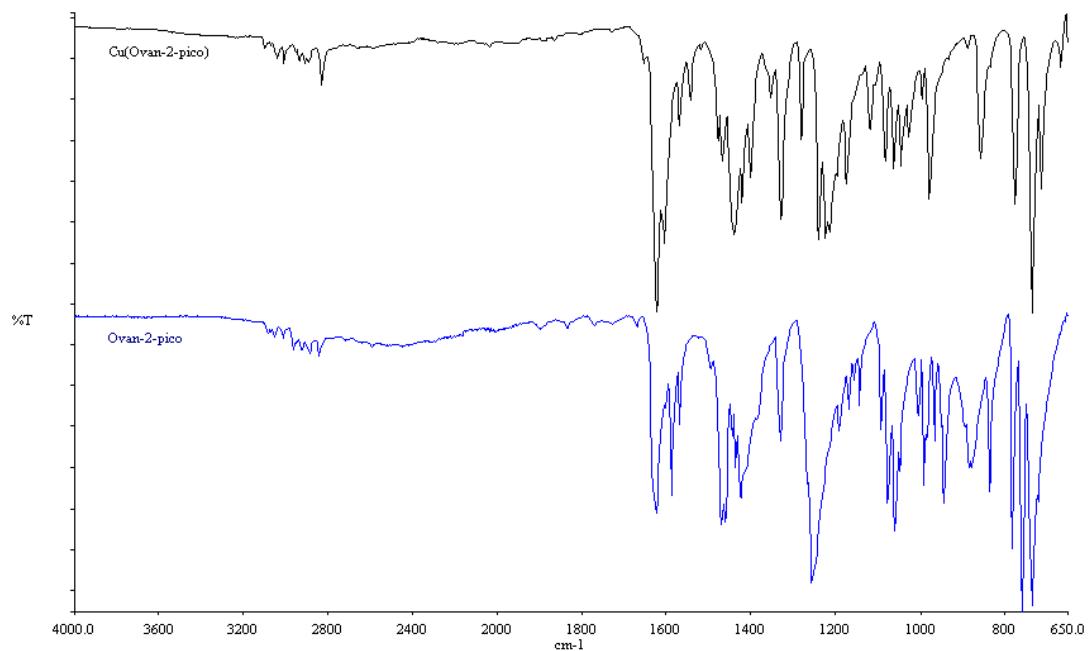
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Figure 5: Mid-infrared spectra for Liagnd L^5 and $Cu(L^5)_2Cl_2 \cdot H_2O$

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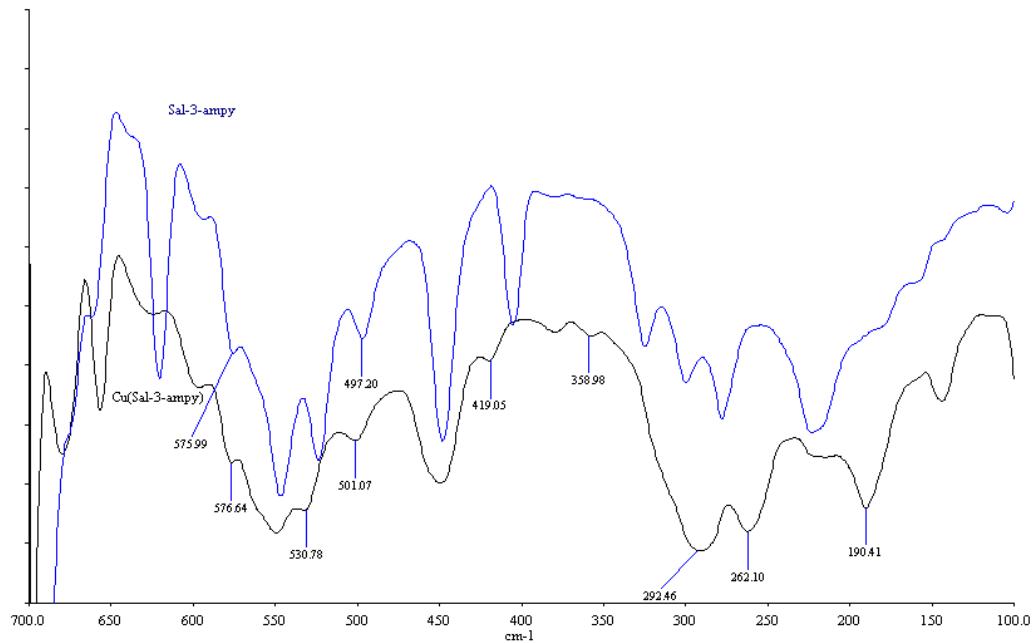
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Figure 6: Mid-infrared spectra for ligand L⁶ and [Cu(L⁶Cl)]



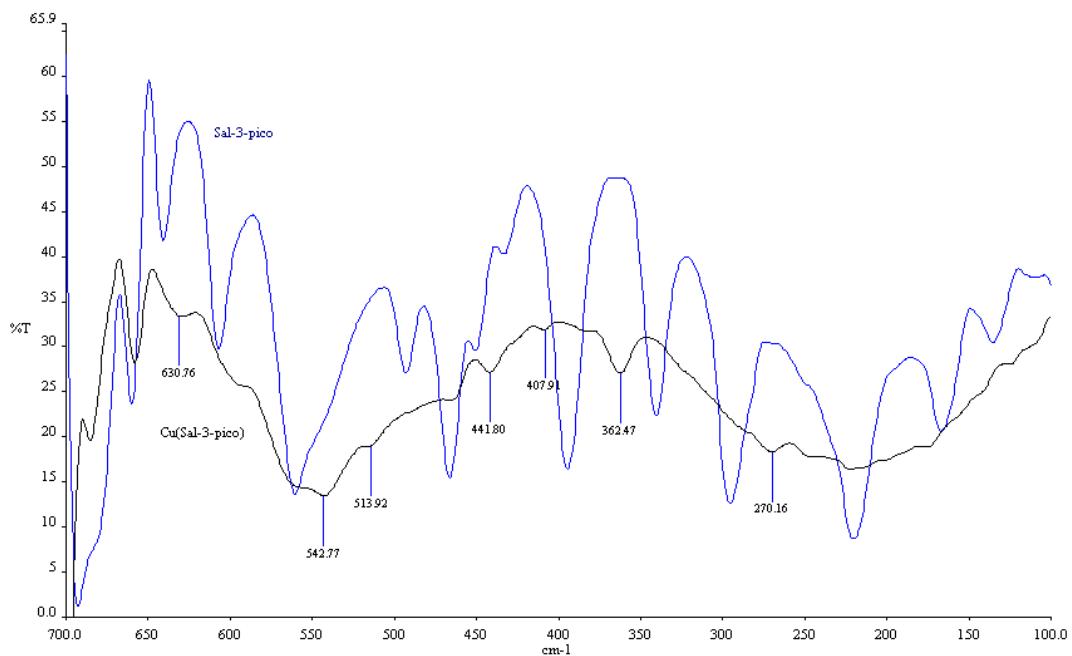
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Figure 7: Far-infrared spectra for ligand L² and Cu(L²)₂Cl₂. γ 2H₂O

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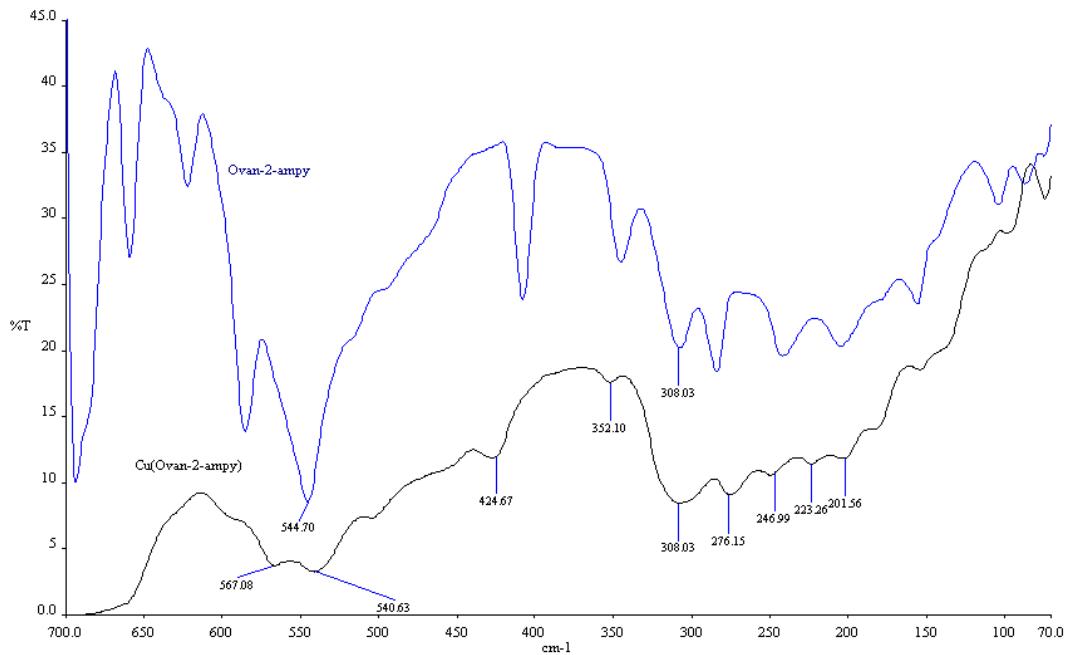
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Figure 8: Far-infrared spectra for ligand L^3 and $Cu(L^3)_2Cl_2 \cdot \frac{1}{2}H_2O$



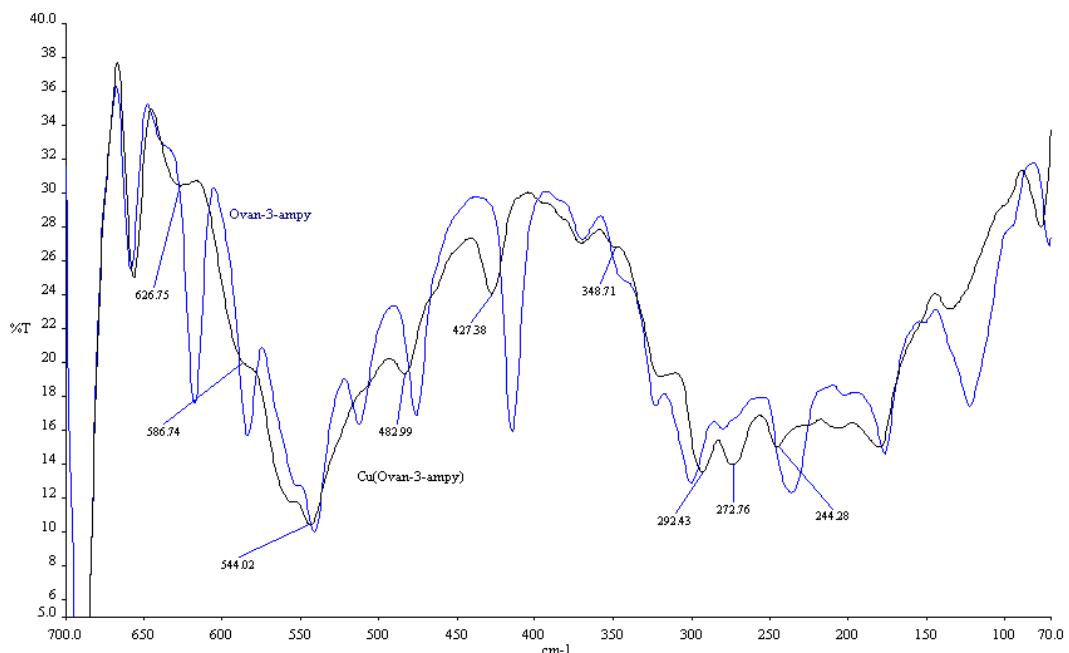
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Figure 9: Far-infrared spectra for ligand L^4 and $Cu(L^4)Cl_2 \cdot H_2O$

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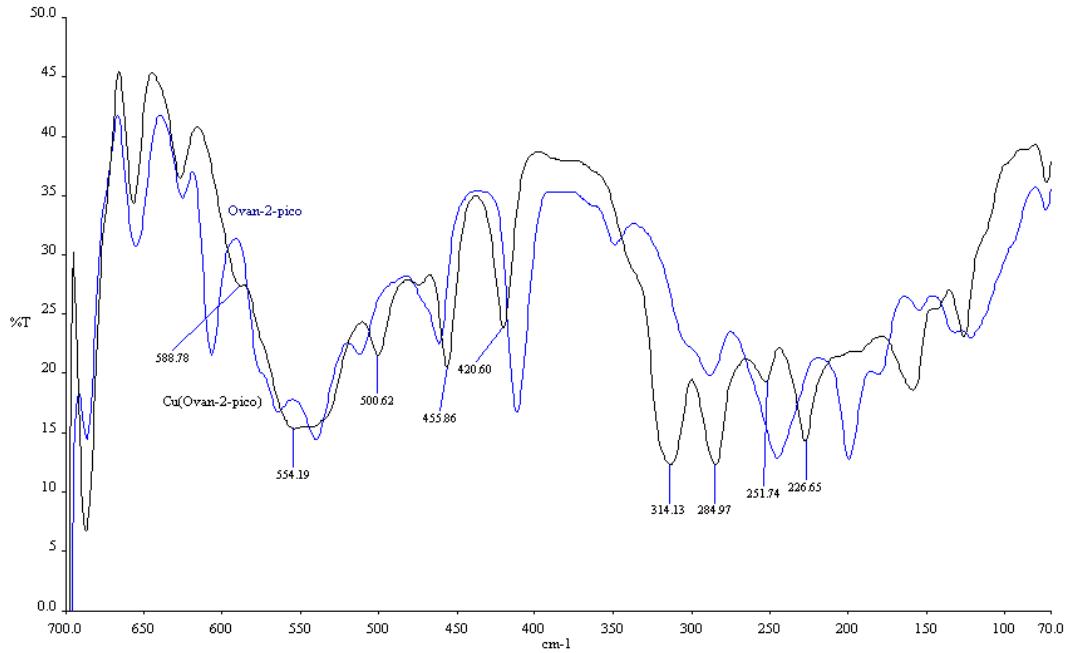
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38 **Figure 10: Far-infrared spectra for ligand L⁵ and Cu(L⁵)₂Cl₂.H₂O**



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40 **Figure 11: Far infrared spectra for ligand L⁶ and [Cu(L⁶)Cl]**

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43 **Table 1: Antimicrobial activity of the Schiff base ligands and their Cu(II) complexes.**

Compound	E. coli	Diameter of zone of inhibition (mm)		
		B. subtilis	S. aureus	C. albicans
L ¹	-*	-	-	-
CuL ¹ Cl	-	12	-	-
L ²	-	-	-	-
Cu(L ₂) ₂ Cl ₂ .H ₂ O	-	11	-	-
L ³	11	09	09	-
Cu(L ³) ₂ Cl ₂ .H ₂ O	-	14	-	12
L ⁴	13	14	16	36
CuL ⁴ Cl(H ₂ O)Cl	08	15	14	09
L ⁵	16	12	17	36
Cu(L ⁵) ₂ Cl ₂ .H ₂ O	13	16	15	31
L ⁶	16	12	17	36
[CuL ⁶ Cl]	13	16	15	31
Ampicillin 10 µg/ml	52	38	28	20
Ketoconazole				
DMF (Control)	-	-	-	-

44 -*: No inhibition

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