

Lab Report

**Fourier Transform Infrared (FTIR) spectroscopic
analysis of CQ and LNPS**

Student Full Name

Institutional Affiliation

Course Full Title

Instructor Full Name

Due date

Fourier Transform Infrared (FTIR) spectroscopic analysis of CQ and LNPS

Group	CQ	SLNPS
(O-H) ^v	3321.46	3284.14
(H-C=O) ^v	2931.93	2195.90 ↑
(O-H) ^v	2246.27	2186.29
	2214.18	2158.96 ↓
(C=O) ^{vas}	2193.72	2226.37
(C=O) ^{vas}	2175.81	2158.96
(C=O) ^{vs}	2165.61	2150.54
	2147.56	2124.39
		2174.01
	2040.50	2073.17
(C-O-C) _s	2025.30	2054.19 ↓
(C-OH) _v (C-O) _v	2001.53	2034.26 ↑
	1990.90	2020.61
	1969.19	1998.14
	1630.50	1973.48 ↑
	1415.03	1973.48
		1943.21 ↑
	1020.93	1634.66 ↓
(CH-CH) _v	2009.52	2190.09 ↑

V=Vibrational stretching, S=symmetric, a=asymmetric= ↑ =increased absorpt intensity

References

Oberle, J., Dighton, J., & Arbuckle-Keil, G. (2015). Comparison of methodologies for separation of fungal isolates using Fourier transform infrared (FTIR) spectroscopy and Fourier transform infrared-attenuated total reflectance (FTIR-ATR) microspectroscopy. 119(11), 1100-1114. <https://doi.org/10.1016/j.funbio.2015.08.007>



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