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Journal of Saudi Chemical Society

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## ORIGINAL ARTICLE

# Synthesis, structural investigations and antimicrobial studies of hydrazone based ternary complexes with Cr(III), Fe(III) and La(III) ions

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Received 13 February 2020; revised 16 April 2020; accepted 20 April 2020

Available online 6 May 2020

## KEYWORDS

Ternary complexes;  
 Physico-chemical studies;  
 Antimicrobial studies

**Abstract** A novel series of three trivalent mononuclear ternary complexes of the type,  $[ML_1L_2]$  [ $M = Cr(III), Fe(III)$  and  $La(III)$ ,  $HL_1 = 2-((2-(2,4-dinitrophenyl)hydrazone)methyl)phenol$ ,  $HL_2 = 2-aminophenol$ ] was investigated by various physio-chemical studies. To obtain additional information inside the structure, density functional theory calculation was also carried out. The

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Peer review under responsibility of King Saud University.



Production and hosting by Elsevier

<https://doi.org/10.1016/j.jscs.2020.04.005>

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