

# Anti-microbial Activity Of Graphene Oxide Against Bacteria And Fungi

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## Abstract

Graphene Oxide (GO) is a promising material for various applications. The team prepared GO from graphite and studied the interaction with different microorganisms. Anti-microbial properties were detected for the prepared GO. Anti-microbial activities of GO was tested against one eukaryotic fungi (*Candida albicans*) two prokaryotic bacteria Gram-negative bacilli (*Escherichia coli* ATCC 41570 and *Pseudomonas aeruginosa* ATCC 25619) and two prokaryotic bacteria Gram-positive cocci (*Streptococcus faecalis* 19433 and *Staphylococcus aureus* ATCC 11632). Spectrophotometer was used to measure the growth as an indirect method, viable cell counting was used as direct method. Readings were taken at successive incubated times. Results revealed that GO exhibited stronger antibacterial and anti-fungal activity against the used bacteria and fungi species.

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