



Maceration
Extraction

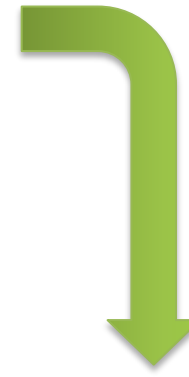


Lawsonia inermis leaves

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methanolic extract

Phytochemical	Test	Result
Alkaloids	Mayer's test	+
Carbohydrates	Molish test	-
Flavonoids	Alkaline reagent test	+
Saponins	Froth formation test	+
Tannins	Gelatin test	-
Proteins	Warming test	+
Triterpenoids	Salkowski test	+
Glycosoides	Borntrager's test	+
(+)= present (-)= absent		

Phytochemical
Screening



Nanotechnology

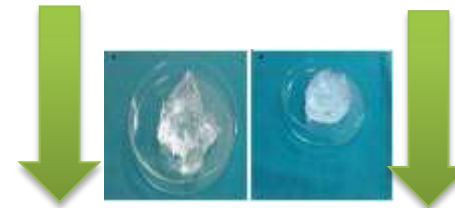
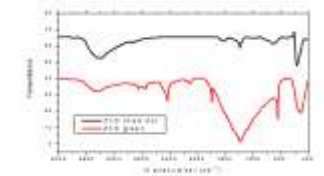
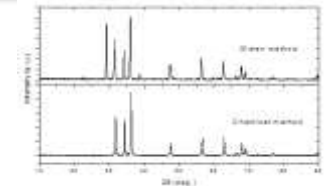


ZnO

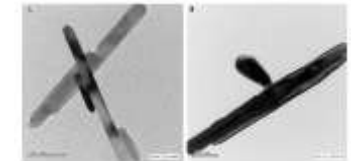
Green ZnO-NPs

Chemical ZnO-NPs

Characterization
XRD
FTIR
HRTEM



Gel Preparation



Experimental Design

