Copper-modified palygorskite is effective in preventing and treating diarrhea caused by *Salmonella typhimurium*

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Cite this as: Da-wei YAO, Ze-zhong YU, Na LI, Yu-nong HOU, Jia-rong XU, De-ji YANG, 2017. Copper-modified palygorskite is effective in preventing and treating diarrhea caused by *Salmonella typhimurium*. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 18(6):474-480. http://dx.doi.org/10.1631/jzus.B1600133

Introduction



Palygorskite

- aflatoxin adsorbent
- tannin adsorbent
- excipient
- gastrointestinal protector

Introduction



Cu^{2+}

- antibacterial properties
- growth promotion
- enhance immunity

Materials and methods



+



=



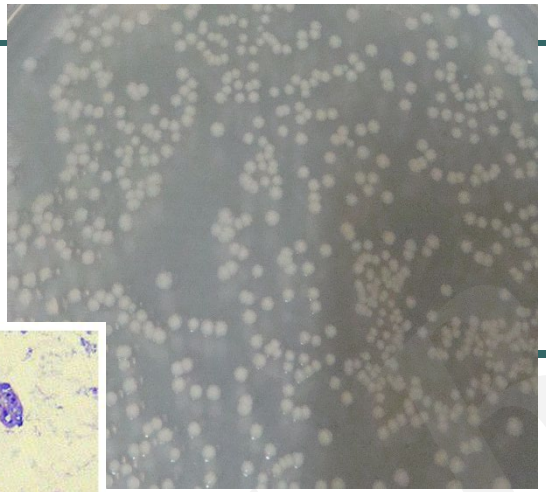
antibacterial properties

adsorbent

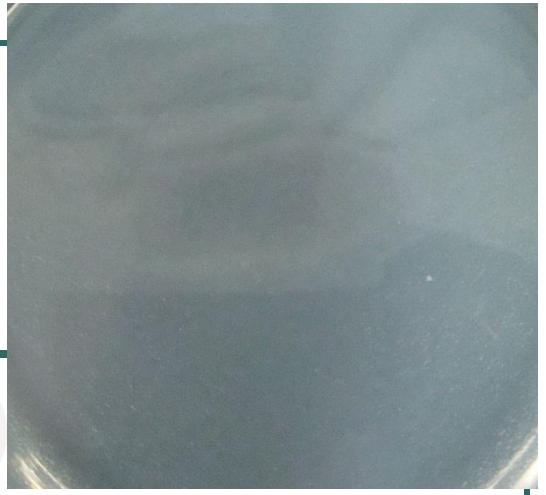
gastrointestinal protector

anti-diarrheic activity

Results

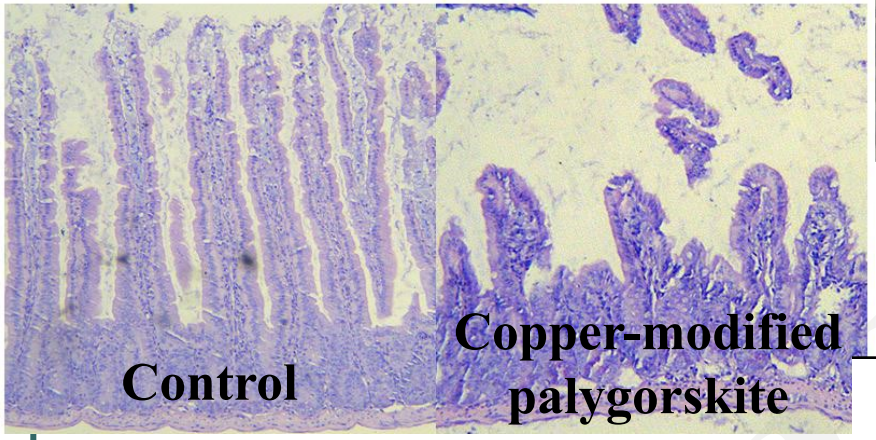


Control



Copper-modified palygorskite

antibacterial properties in vitro



gastrointestinal protector

anti-diarrheic activity

Group	Incidence of diarrhea %			
	12 h	24 h	48 h	96 h
CM-Pal prevention	80	0	0	0
uninfected	N	0	0	0
Pal	90	30	10	0
montmorillonite	80	30	10	0
CM-Pal treatment	50	0	0	0
gentamicin	100	90	20	10
no treatment	100	60	50	50