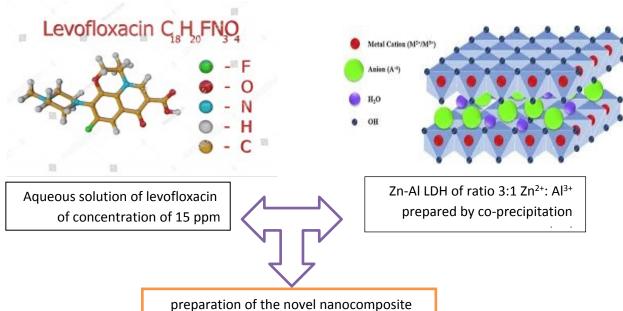
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## **Supporting information**



preparation of the novel nanocomposite (Zn-Al LDH/Levo) using batch operating system by the addition of 0.125 g of Zn-Al LDH to an aqueous solution of levofloxacin of concentration 15 ppm adjusting pH of



the prepared solution was well sonicated, Centrifuged taking the supernatant for UV measurements whereas the precipitate was dried in oven at 50 °C for one hour then it was left for 2-3 days to ensure its complete dryness. Then well grinding occurs to get very fine powder



Investigation of the anti-inflammatory activity of the novel nanocomposite compared to the pure levofloxacin and Diclofenac sodium administrated in rats' paws.





Hind limb induced formalin



Oral administration of different treatments



tilled water)

Standard group (Diclofenac Na)
Standard Zn-Al LDn



Zn-Al LDH



Normal form of Levofloxacin



Zn-Al LDH/Levo nanocomposite

## **Scheme S1**. Designe of the Experimental work