

1 Article

2 **Edaravone-loaded alginate-based nanocomposite**
3 **hydrogel accelerated chronic wound healing in**
4 **diabetic mice**

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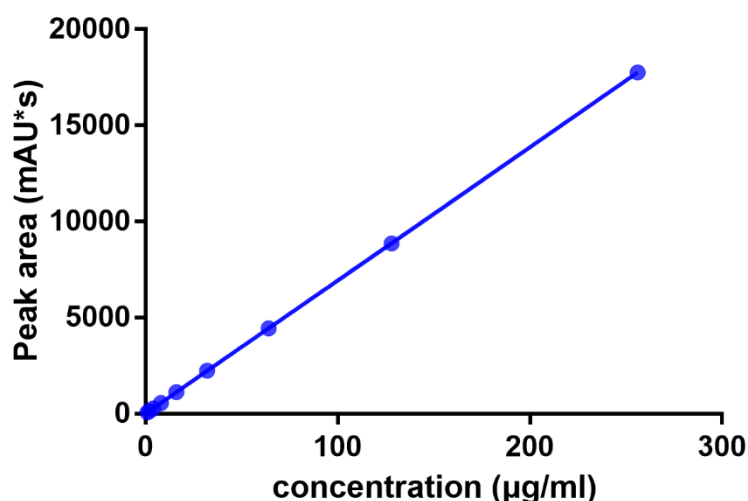
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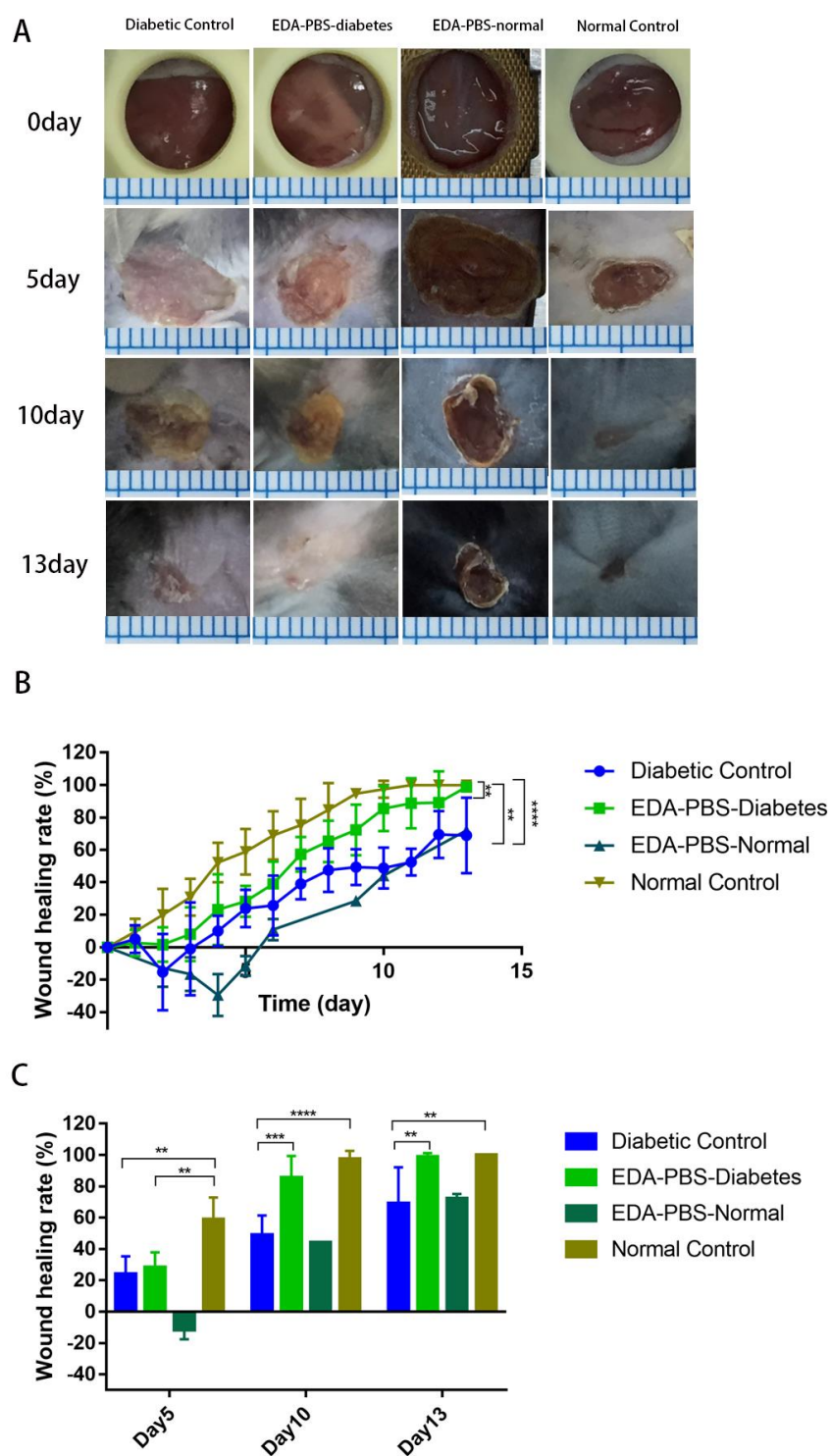
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17 **Figure S1.** The standard curve of edaravone was established by High Performance Liquid
18 Chromatography. ($y = 69.332x + 5.3527$, $R^2 = 1$).



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21 **Figure S2.** Effects of edaravone on wound closure in diabetic mice and normal mice. (A)

22 Representative images of wounds of four groups. (B) Healing progression for day 0–13. (C)

23 Percentage wound closure on day 5,10,13 after wounding. (mean ± SD, n=4). (**P < 0.01, ***P < 0.005;

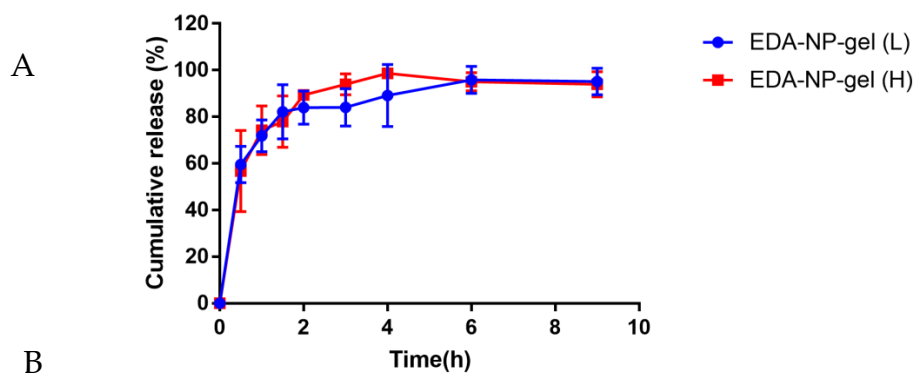
24 ****P < 0.001).

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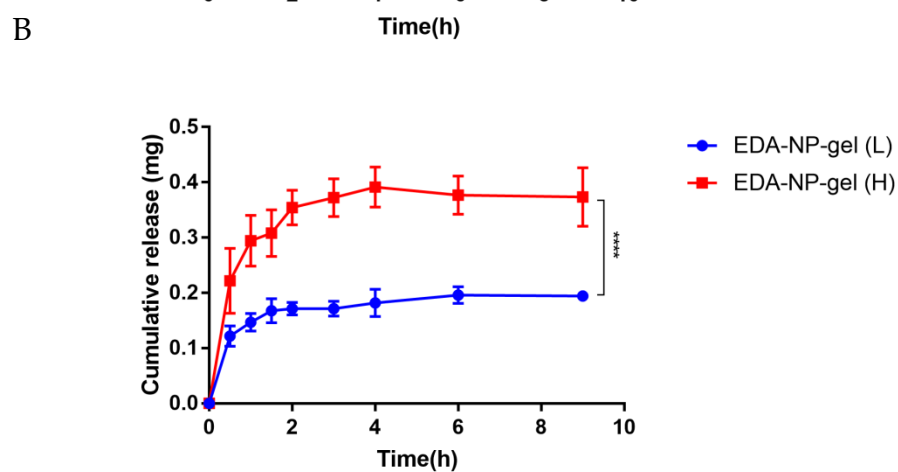
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Figure S3: In vitro release behavior of high and low dose of edaravone loaded nanocomposite hydrogel using dialysis bag method in phosphate buffer (pH 5) at 37°C. A: the percentage of edaravone released. B: the absolute amount of edaravone released. The edaravone concentrations were measured by high performance liquid chromatography (mean \pm SD, $n=3$, ** $p < 0.001$).**