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(57) Abstract :

The present invention discloses a novel wound-healing gel composition incorporating Parval-derived Carbon Quantum Dots (PCQDs) for the treatment of skin excisional wounds. The composition comprises polyethylene glycol and Parval-derived Carbon Quantum Dots (PCQDs) with average size of 3 ± 0.5 nm, wherein the concentration of PCQDs is approximately 150 mM. The polyethylene glycol comprises PEG4000 and PEG400 is in a ratio in the range of 1:1 to 1.5:1. The invention also discloses a method of preparing PCQDs infused gel composition.

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