

# CHARACTERISTIC GREEN SYNTHESIS OF GOLD NANOPARTICLES USING CENTELLA ASIATICA EXTRACT

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Synthesis nanoparticles gold (AuNPs) in friendly environment the more interesting attention , especially to its characteristics. Centella asiatica is plant medicine that is rich in flavonoid and triterpenoid content that plays a role as agent reducer and stabilizer experience in the process of synthesis green. Research This aiming For to characterize synthesis green nanoparticles gold (AuNPs) using extract Centella asiatica. Synthesis done with react extract ethanol leaf Centella Asiatica with HAuCL<sub>4</sub> solution at temperature space . Characterization is done with use UV-Vis spectroscopy, FTIR, and SEM. The results showed the formation of AuNPs in the form of round with an average diameter of 74-99 nm and a surface plasmon peak at 530-547 nm. FTIR analysis indicates existence involvement group phenolic and carbonyl in the reduction and stabilization process. Activity test antioxidant show improvement significant compared to extract pure. Findings This show that the AuNPs results synthesis use Centella Asiatica potential as material active in product biocosmetics natural, offering effectiveness and safety through approach technology safe, friendly nanoparticles environmental and sustainable.

**Keywords :** Characteristic, Gold Nanoparticles, Centella asiatica , AuNPs