

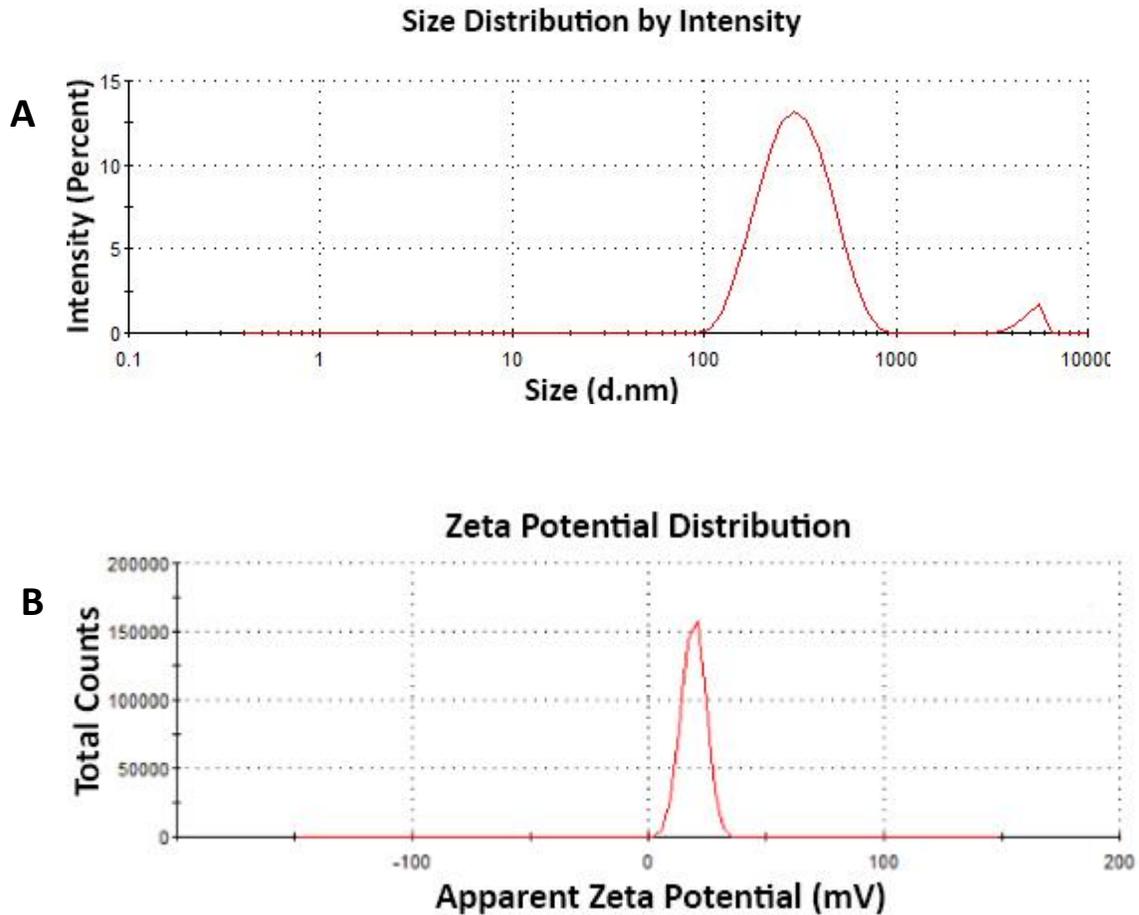
Chitosan and *N, N, N*-trimethyl chitosan nanoparticle encapsulation of *Ocimum gratissimum* essential oil: Optimised synthesis, *in vitro* release and bioactivity

Confidence Onyebuchi ^a Doğa Kavaz ^{a,b*}

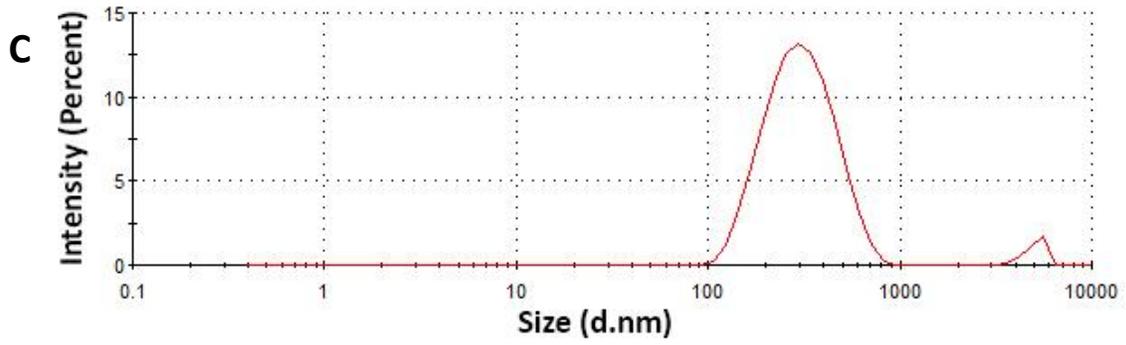
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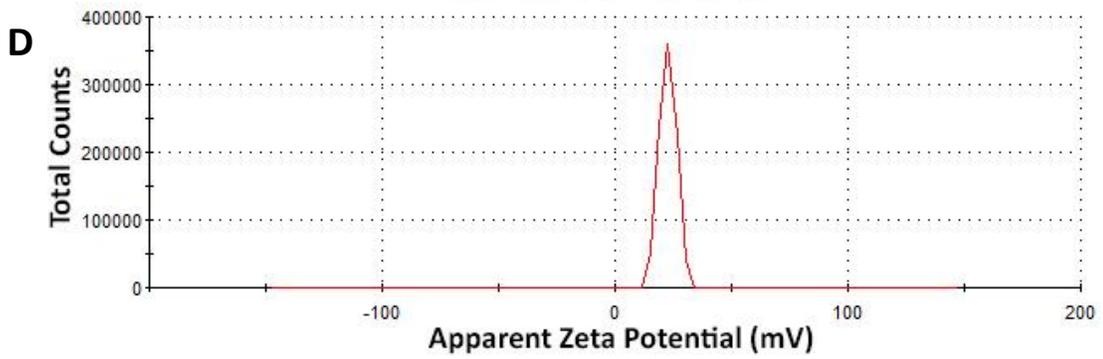
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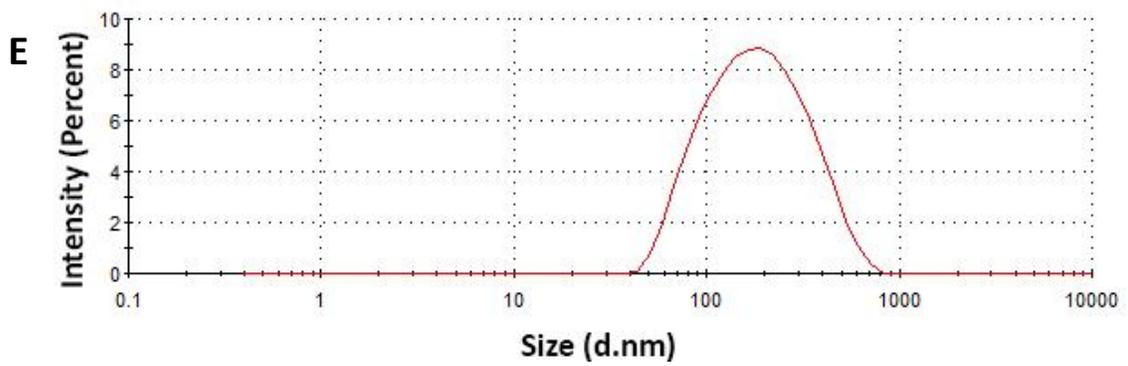
Size Distribution by Intensity



Zeta Potential Distribution



Size Distribution by Intensity



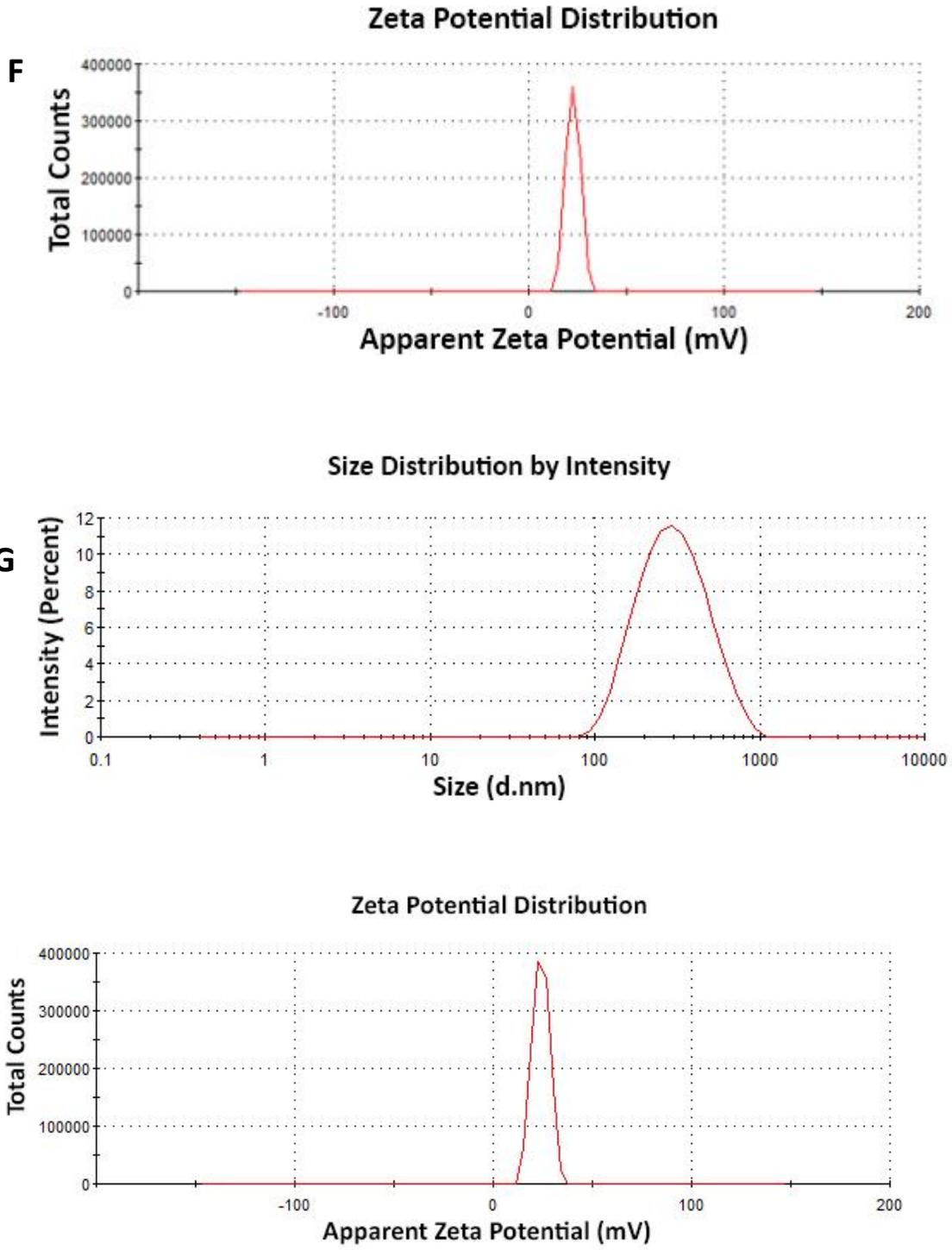


Figure S1 Particle size distribution of synthesized *O. gratissimum* EOs loaded in Chitosan and *N,N,N*-trimethyl chitosan nanoparticles. (A) size distribution of TMCNPs, (B) zeta potential distribution of TMCNPs, (C) size distribution OGEO-TMCNPs, (D) zeta potential distribution of

OGEO-TMCNPs, (E) size distribution of CSNPs, (F) zeta potential distribution of CSNPs, (G) size distribution of OGEO-CSNPs, and (H) zeta potential distribution of OGEO-CSNPs.

Abbreviation: TMCNPs, *N, N, N*-trimethyl chitosan. OGEO-TMCNPs, *Ocimum gratissimum* essential oil-loaded *N, N, N*-trimethyl chitosan. CSNPs, Chitosan nanoparticles. OGEO-CSNPs, *Ocimum gratissimum* essential oil-loaded chitosan nanoparticles.