

***ANTI-CANCER NANOPARTICLE SYNTHESIS AND
CHARACTERIZATION***

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ABSTRACT

Budesonide, (–)-epigallocatechin-3-gallate (EGCG) from Green tea, Irresal and resveratrol have been shown to exhibit cancer-preventive activities in preclinical studies. However, traditional atomization method was shown to be inefficient and hardly controllable in delivering size-selected drug to targeted organ by aerosol administration. In this study, we characterize two improved methods for the drug synthesis. One of the improved aerosol delivery system is composed with a custom-built atomizer coupled with an efficient solvent remove system. The other one is a compact electrospray coupled with a corona discharger.