Spray Formulation:

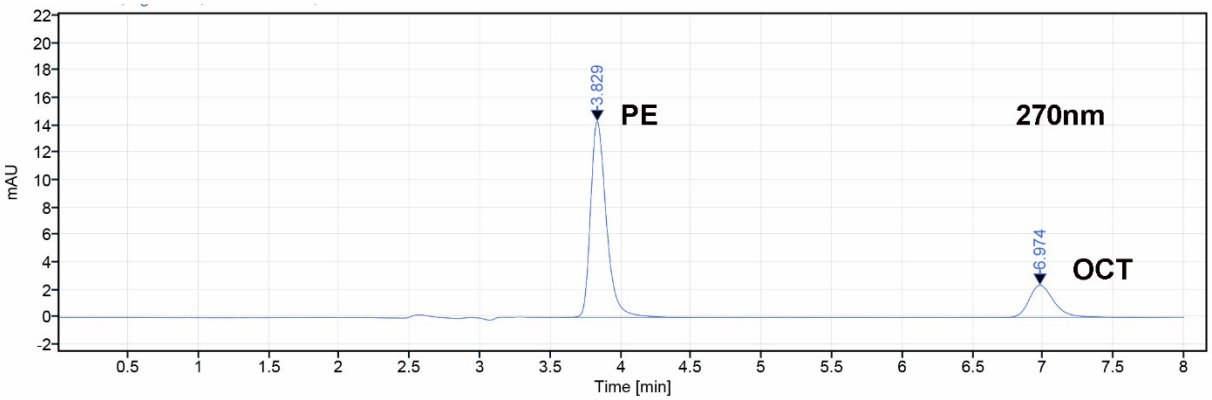

Figure S1: A typical HPLC chromatogram of spray sample containing 0.1% OCT and 2.0% PE, detection at 270.0 nm

Spray Placebo

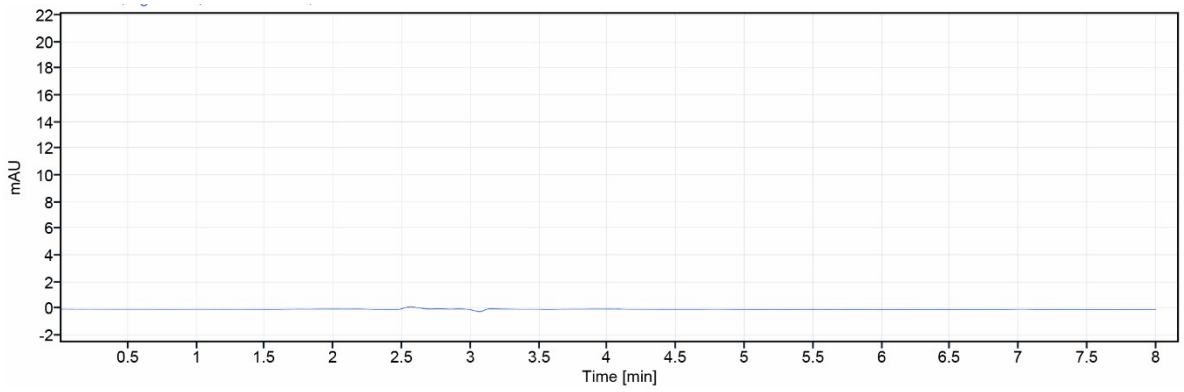

Figure S2: A typical HPLC chromatogram of spray Placebo, detection at 270nm

Gel Formulation:

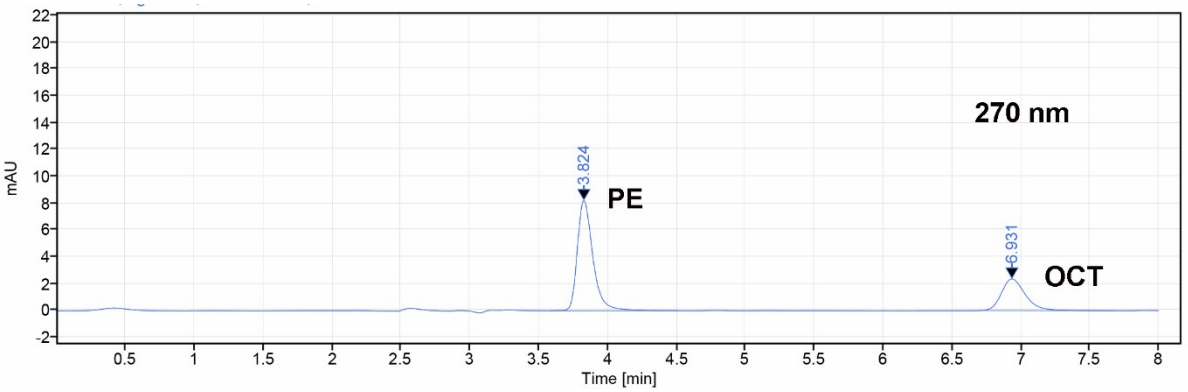

Figure S3: A typical HPLC chromatogram of gel sample containing 0.1% OCT and 1.0% PE, detection at 270.0 nm.

Gel Placebo:

Figure S4: A typical HPLC chromatogram of gel Placebo, detection at 270nm

Solvent Acetonitrile : water (60:40):

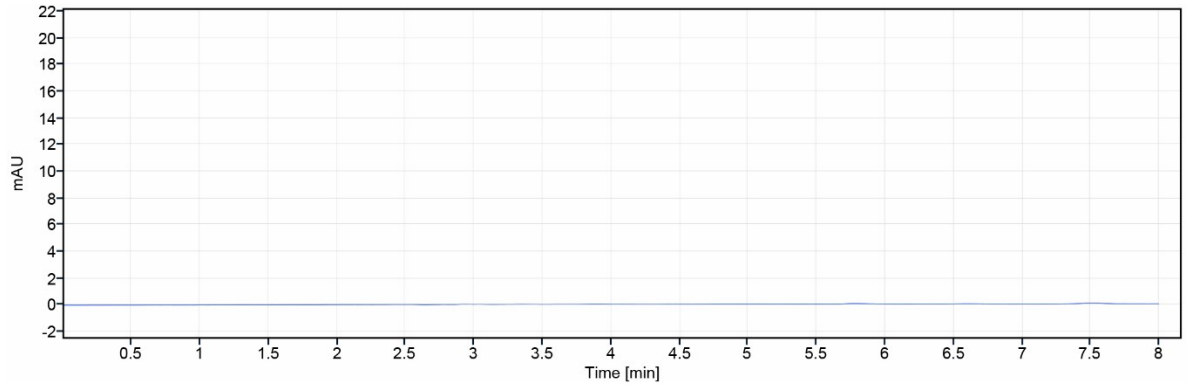

Figure S5: A typical HPLC chromatogram of solvent, detection at 270nm

Calibration Curve of Octenidine

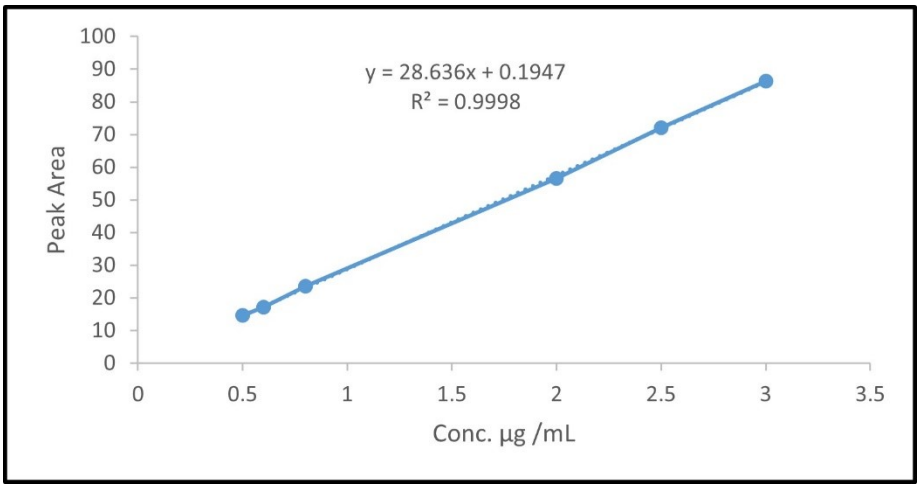

Figure S6: Calibration curve of octanidine dihydrochloride showing the relationship between peak area and concentration.

Calibration Curve of Phenoxyethanol

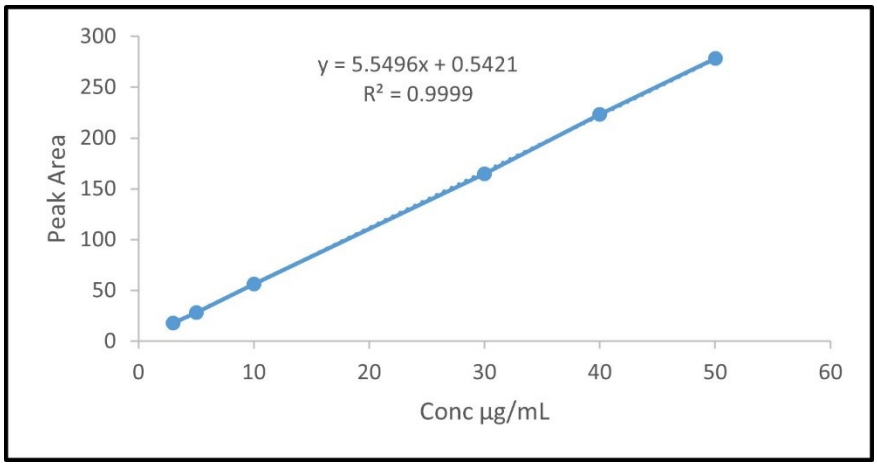

Figure S7: Calibration curve of phenoxyethanol showing the relationship between peak area and concentration.

Peak purity assessment of OCT and PE in gel and spray formulations using diode-array detection

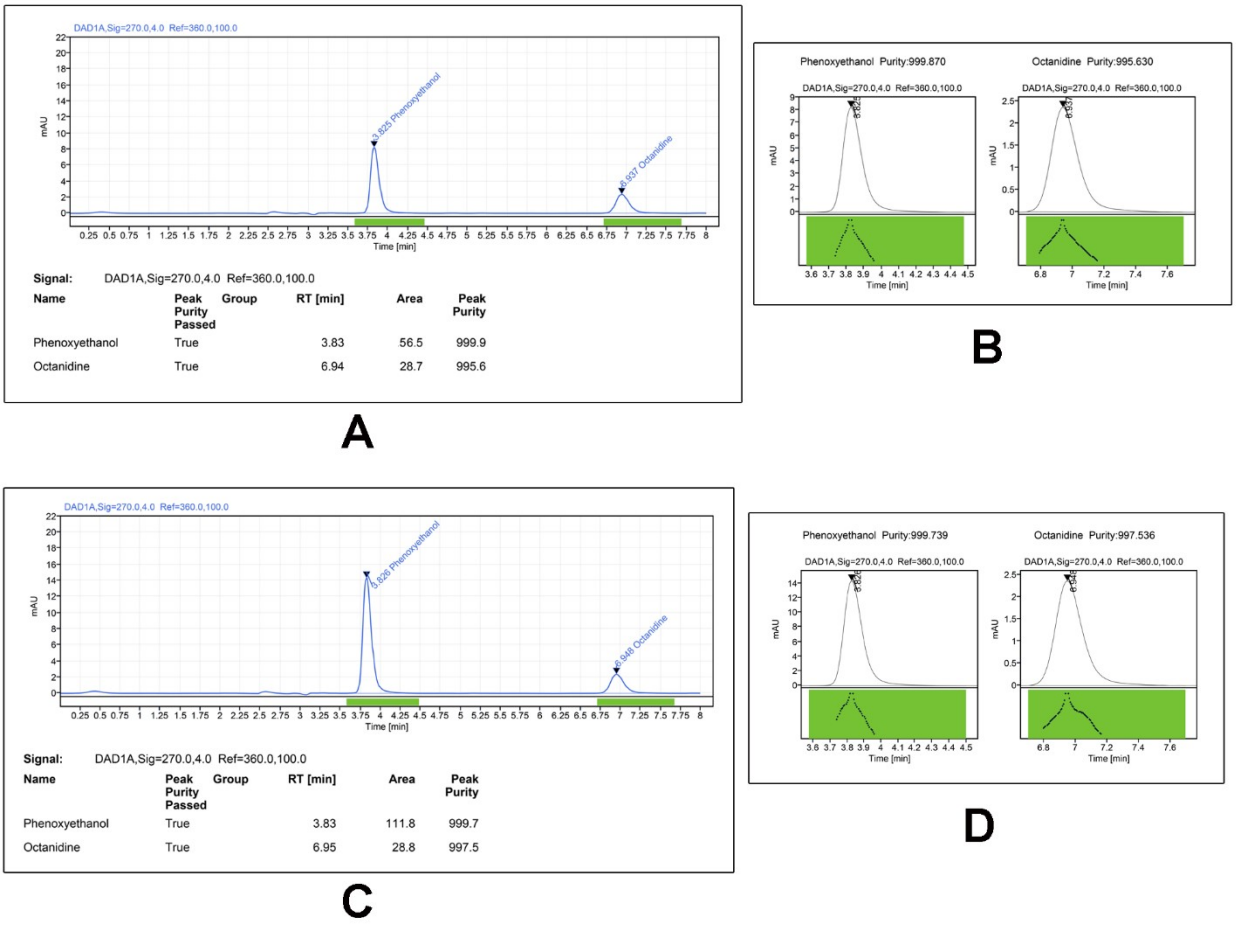

Figure S8: Peak purity assessment of OCT and PE in gel and spray formulations using diode-array detection: (A) chromatogram and purity table for gel, (B) peak purity details for gel, (C) chromatogram and purity table for spray, and (D) peak purity details for spray.