



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG ISSN: 0974-4290

Vol.9, No.03 pp 396-401, 2016

Optimization Polyplex Stability in Different Glucose Concentrations

Mona Al-Terehi*, Ali H. Al-Saadi, Abbas N. Al-Sherefi, Haider K.Zaidan

University of Babylon, College of Science, Iraq

Abstract: Polyethelenimine (PEI) has been used to synthesis Polyplexes for gene transferring applications, it shows high efficacy in gene expression and forms a more stable complex with DNA, different concentration of glucose was used in preparation of polyplex with GFP vector in different percentages, retardation assay, dissociation assay and protective activity against DNase was performed to test polyplex stability, the results show that all N/P ratios showed high stability except N/P 2 at 2%, 3%, 4%, 5% glucose also it shows protective activity against DNase activity.

Key words : polyethylenimine, polyplex, Glucose.

Mona Al-Terehi *et al* /International Journal of ChemTech Research, 2016,9(3),pp 396-401.
