



Studies on Thermodynamic Stability of Constant of Clobetasol Propionate with Ce(III) Complex

R. B.Dhake*

D.D.N. Bhole College, Bhusaval, (M.S.), INDIA

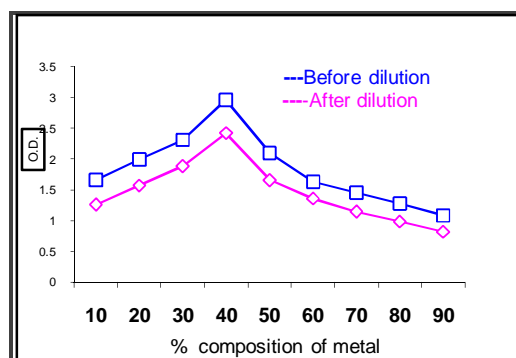
Email: drrbdhake@gmail.com

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ABSTRACT

The thermodynamic stability constant of the complexes were also calculated. The formation of complexes has been studied by Job's method. The results obtained of stability constant were good agreement. The metal-ligand and proton-ligand stability constant of Ce(III) with Clobetasol propionate was determined at various ionic strength by pH metric titration. NaClO_4 was used to maintain ionic strength of solution. The results obtained were, extrapolated to the zero ionic strength using an equation with one individual parameter. The thermodynamic stability constant of the complexes were also calculated.

Graphical Abstract



Ligand +Ce(III).

Keywords: Stability constant, Ionic strength.