

## **Pd(II) Complex with 4-Bromo-2,6-Bis-Hydroxymethyl-Phenol and Nikotinamid: Synthesis and Spectral Analysis**

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**Abstract :** In the present study, the reactions involving 4-Bromo-2,6-bis-hydroxymethyl-phenol (BBHMP) and nikotinamide (NA) in the presence Pd (II) ion were investigated. Optimum conditions for the reactions were established as pH 7 and  $\lambda = 450$  nm. According to absorbance measurements, the mole ratio of BBHMP : NA : Pd<sup>2+</sup> was found as 1 : 2 : 2. As a result of physico-chemical, spectrophotometric and thermal analysis results, the reactions of BBHMP and NA with Pd (II) is complexation reactions and one molecule BBHMP and two molecules of NA react with two molecules of metal (II) ion.

**Keywords :** 4-Bromo-2,6-bis-hydroxymethyl-phenol, nicotinamide, Pd(II), spectral analysis, synthesis

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