

## **Adsorption Studies onto Grey BL dye using the leaves of *Trachyspermumammi* (Ajwain Leaves)**

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**Abstract:**Main objective of the study is to prepare bio mass adsorbent from Ajwain plants (*Trachyspermumammi*.L) to remove Grey BL dye from aqueous solution by adsorption. To understand the adsorption behaviour of ajwain leaves powder as biomass, studies like effect of biomass, effect of pH, contact time and adsorption isotherms were done effectively by suitable method. The Freundlich isotherm exhibited a better fit for the adsorption data than the Langmuir and Temkin models with maximum multilayer adsorption. The result in this study indicates that ajwain leaves powder is an attractive candidate for removing dyes from waste water.

**Keywords:** Grey BL dye, *Trachyspermumammi*.L, biomass, Isotherm, sorption.

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