Thesis Title	:	A Feasibility Study of Using Commercial Grade Cation-exchange Resins for Paraquat Content Analysis in Water
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ABSTRACT

To date laboratory grade cation exchange resins i.e. Dowex 50 W or Zeo-Karb 225 are being used for the analyses of Paraquat in water by Ion-exchange Method. These resins are quite expensive and difficult to obtain ; thus , it is the intention of this study to investigate the feasibility of using commercial grade cation exchange resins for the purpose. Three commercial grade cation exchange resins: (1) Amberlite IR 120 Plus, (2) Kastel C 300 L and (3) Lewatit S 100 were selected for the experiment which was done at the range of paraquat concentrations in water between 0.1-5.0 mg/l. Results of the study indicated that Amberlite IR 120 Plus could be used in the place of the la oratory grade resins ($P > 0.05$) ; while the other two resins could not ($P < 0.01$).