

Supplementary Data

Removal of Rhodamine B from water using a Solvent Impregnated Polymeric Dowex 5WX8 Resin: Statistical Optimization and Batch Adsorption Studies

Moonis Ali Khan ^{1,*}, Momina ², Masoom Raza Siddiqui ¹, Marta Otero³, Shareefa Ahmed Alshareef ¹, Mohd Rafatullah ^{4,*}

¹ Chemistry Department, College of Science, King Saud University, Riyadh 11451, Saudi Arabia

² School of Chemical Engineering, Universiti Sains Malaysia, Engineering Campus, Nibong Tebal, 14300, Penang, Malaysia

³ Department of Environment and Planning & CESAM, University of Aveiro, Campus de Santiago, Aveiro 3810-193, Portugal

⁴ School of Industrial Technology, Universiti Sains Malaysia, Main campus, 11800, Penang, Malaysia

* Correspondence: mokhan@ksu.edu.sa, moonisalikhan@gmail.com (M.A.K.); mrafatullah@usm.my (M.R.)

Corresponding Author: Moonis Ali Khan

E-mail addresses: mokhan@ksu.edu.sa, moonisalikhan@gmail.com (M.A.Khan); mrafatullah@usm.my (M. Rafatullah)

Table 1. Results of response surface methodology design.

A Dosageof Resin (g)	B Contact Time (min)	C Colour Removal (%)
0.1	5	9.09
0.5	5	83.98
0.1	30	94.41
0.5	30	89.08
0.1	17.5	86.90
0.5	17.5	84.63
0.3	5	84.59
0.3	30	97.45
0.3	17.5	85.19
0.3	17.5	91.36
0.3	17.5	86.96
0.3	17.5	90.41
0.3	17.5	89.94

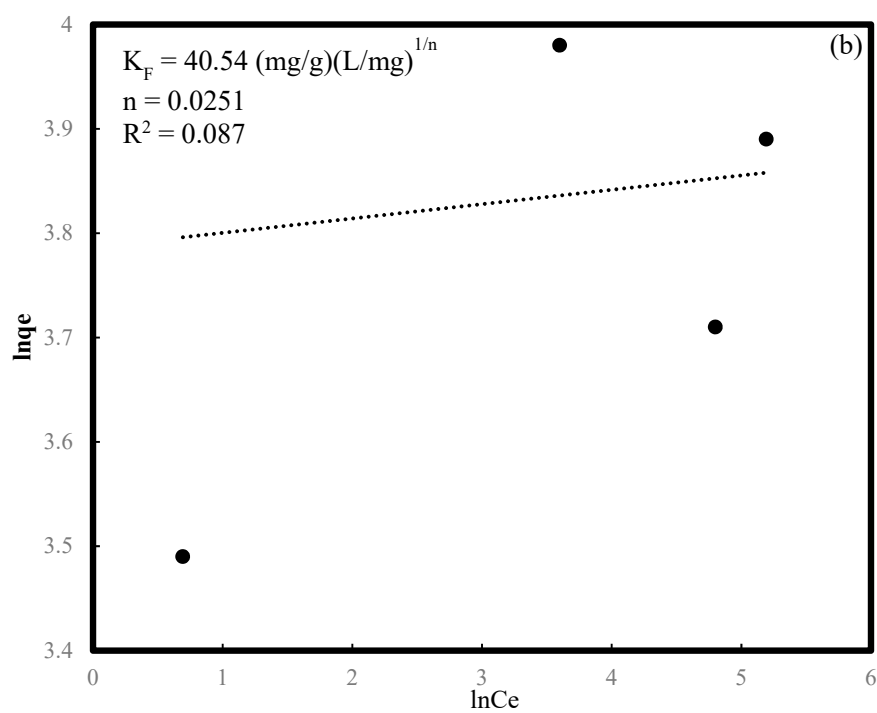
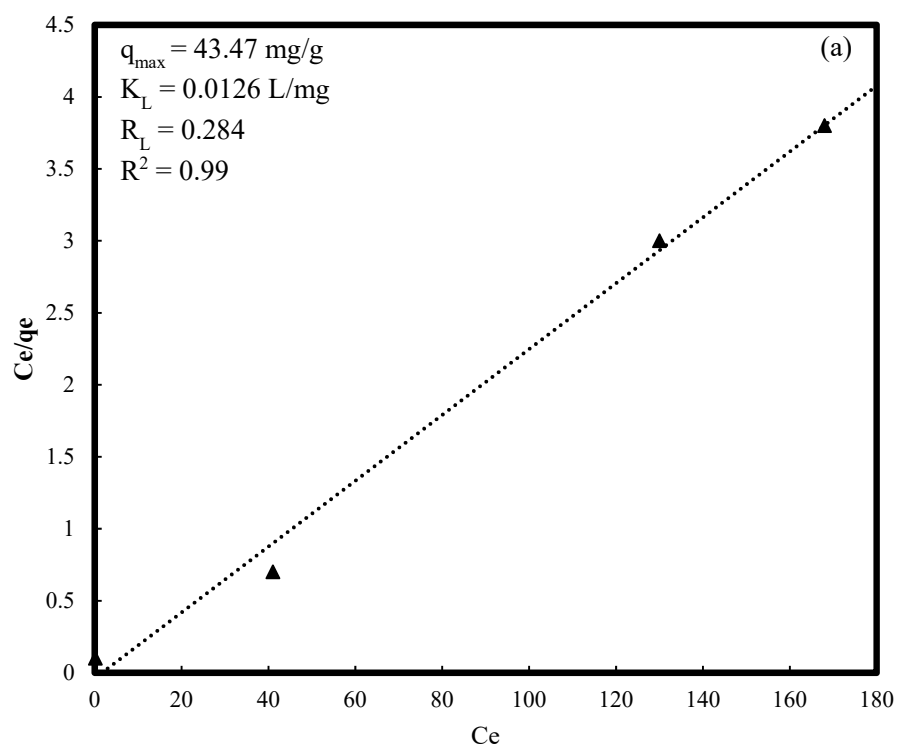


Figure S1. Langmuir (a) and Freundlich (b) plots for the adsorption of RhB on SIR.