

EXTRACTION OF BETACYANIN FROM
Bougainvillea glabra BRACT AND THE
ADSORPTION ONTO FIBRES

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LIST OF SYMBOLS

| | |
|-----------------|---|
| C_B | Solute bound per unit amount of adsorbent |
| C_e | Equilibrium dye concentration |
| C_i | Initial dye concentration |
| C_u | Unbound solute concentration |
| K_F | Freundlich adsorption constant |
| K_L | Affinity constant for Langmuir isotherm |
| £ | Sterling pound |
| kHz | Kilo hertz |
| q_m | Maximum capacity of adsorption |
| λ_{max} | Maximum wavelength |

LIST OF ABBREVIATIONS

| | |
|-----------|--|
| ANN | Artificial Neural Network |
| ANOVA | Analysis of Variance |
| CCD | Central Composite Design |
| COD | Chemical Oxygen Demand |
| FTIR | Fourier Transform Infra-Red |
| HCL | Hydrochloric |
| HPLC | High Performance Liquid Chromatography |
| ITO | Indium tin oxide |
| KBr | Dry potassium bromide |
| MLR | Material-liquid ratio |
| MS | Mass spectrophotometer |
| OFAT | One Factor At Time |
| RPM | Rotation per minute |
| RSM | Response surface methodology |
| SEM | Scanning electron microscopy |
| SFE | Supercritical fluid extraction |
| SLR | Solid-liquid ratio |
| sp. | species |
| UV | Ultra violet |
| IP-HSCCC | Ion –pair high-speed countercurrent chromatography |
| ESI-MS-MS | Electrospray ionization mass-spectrometry |