

Materials List for:

Capillary Electrophoresis to Monitor Peptide Grafting onto Chitosan Films in Real Time

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Materials

| Name | Company | Catalog Number | Comments |
|---|--------------------------|----------------|--|
| Water | Millipore | | All water used in the experiment has to be of Milli-Q quality |
| Chitosan powder (medium molecular weight) | Sigma-Aldrich | 448877 | lot MKBH1108V was used. Significant batch-to-batch variations occur with natural products such as polysaccharides |
| Acetic acid - Unilab | Ajax Finechem | 2-2.5L GL | laboratory reagent |
| Dimethylsulfoxide | Sigma-Aldrich | D4540 | laboratory reagent, slightly hazardous to skin, hazardous if ingested |
| Sodium hydroxide | Sigma-Aldrich | 221465 | laboratory reagent, corrosive |
| 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide | Sigma-Aldrich | D80002 | Irritant to skin |
| N-hydroxysuccinimide | Sigma-Aldrich | 130672 | Irritant to skin |
| Sodium chloride | Ajax Finechem | 466-500G | laboratory reagent |
| Potassium chloride - Univar | Ajax Finechem | 384-500G | analytical reagent, slight skin irritant |
| Disodium hydrogen phosphate - Unilab | Ajax Finechem | 1234-500G | laboratory reagent, slight skin irritant |
| Potassium dihydrogen phosphate - Univar | Ajax Finechem | 4745-500G | analytical reagent, slight skin irritant |
| Oligoacrylate standard | custom made | | See reference for synthetic protocol: Castignolles, P.; Gaborieau, M.; Hilder, E. F.; Sprong, E.; Ferguson, C. J.; Gilbert, R. G. <i>Macromol. Rapid Commun.</i> 2006, 27 , 42-46 |
| Boric acid | BDH AnalR, Merck Pty Ltd | 10058 | Corrosive |
| Hydrochloric acid - Unilab | Ajax Finechem | A1367-2.5L | laboratory reagent, corrosive |
| Fused silica tubing | Polymicro (Molex) | TSP050375 | Flexible fused silica capillary tubing with standard polyimide coating, 50 µm internal diameter, 363 µm outer diameter |
| Agilent 7100 CE | Agilent Technologies | G7100CE | Capillary electrophoresis instrument |
| Orbital shaker | IKA | KS260 | |
| Electronic balance | Mettler Toledo | MS204S | |
| Milli-Q Synthesis | Millipore | ZMQS5VF01 | Ultrapure water filtration system |

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| Parafilm | Labtek | PM966 | Parrafin wax |
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