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**WO 1996/009379 A1** **US 7022835 B1**  
**US 20030087286 A1**

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INT CL **B03C, C12N, C12Q, G01N**  
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(54) Abstract Title: **Nucleic acid separation**

(57) The present invention provides a method of reversibly binding a nucleic acid molecule to a non-coated magnetic particle. The method comprises combining non-coated magnetic particles with a solution containing at least one nucleic acid molecule. An adsorption buffer is provided to the solution in a concentration sufficient to bind the nucleic acid to the surface of magnetic particle, wherein the adsorption buffer comprises a polyethylene glycol and a monovalent salt, thereby binding the nucleic acid to the magnetic particle.

Also mentioned is the method comprising the following further steps: separating the magnetic particles having nucleic acid bound to the surface and eluting the bound nucleic acid from the magnetic particles.