



UNIVERSITÄT ZU LÜBECK
INSTITUT FÜR MEDIZINTECHNIK

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Herstellung und Charakterisierung superparamagnetischer Lacke

Bachelorarbeit
aus dem Institut für Medizintechnik
der Universität zu Lübeck



Medizinische Ingenieurwissenschaft
und Biomedizintechnik – Band 3
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Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition

Fabian Oehler, Simon Weisemann



Magnetseparation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition:

Magnetseparation. Herstellung biofunktionalisierte superparamagnetischer Nanokomposition Fabian Oehler, Simon Weisemann, 2015-06-18 Forschungsarbeit aus dem Jahr 2012 im Fachbereich Chemie Biochemie Note 1,0 Veranstaltung Jugend forscht Sprache Deutsch Abstract Unsere konkrete Projektidee ist es die Vorzüge von superparamagnetischen Ferrofluiden mit den mannigfaltigen biologischen Eigenschaften von Proteinen zu kombinieren. Dies gelingt durch die mehrstufige Synthese eines komplexen Partikels, der im Inneren einen magnetischen Kern besitzt. Über mehrfache Modifizierung und Funktionalisierung der Oberfläche war es unser Ziel, die anorganischen Partikel mit einem Protein zu verbinden. Anwendung finden unsere Partikel in der Magnetseparation. Dazu wird ein Protein angebunden, welches enantioselektiv ein Substrat binden kann. Danach können die Partikel mit gebundenem Diastereomer über einen Magneten extrahiert werden. Die Elution des eingelagerten Substrats erfolgt über die Komplexbildung von Cofaktoren, die das Protein so verändern, dass die Bindungsfunktion reversibel unterbrochen wird, sodass der eingelagerte Stoff in die umliegende Flüssigkeit eintritt. Die Partikel werden wieder aus der Lösung extrahiert, sodass die zu untersuchende Substanz isoliert vorliegt.

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