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Lit. Talk
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FW 300 at 4.00 p.m.

Nano/Micro Encapsulation

Abstract

Encapsulation is a widely used very versatile concept today. It can be defined in many ways according to the application. For an example molecular encapsulation in chemistry is the confinement of an individual molecule within a larger molecule. Micro-encapsulation in material science is the coating of microscopic particles with another material; whereas capsule in pharmacy is the enclosure of a medicine within a relatively stable shell for administration.

In this talk applications of nano/micro encapsulation in self healing isocyanate coatings, solubilization of anticancer drug 'trans-Dichloro(dipyridine)platinum(II)', and addition of iron for milk fortification will be presented. The major objective of each application, synthetic procedure of nano/micro encapsulate used, analysis of encapsulate by chromatography, spectroscopy, thermogravimetry etc. and performance of encapsulate will be discussed in detail.

Reference

1. Yang, J.; Keller, M.W.; Moore, S.J.; White, R.S.; Sottos, R.N. *Macromolecules*, 2008, 41, 9650-9655
2. Horvath, G.; Premakumar, T.; Boztas, A.; Lee, E; Jon, S.; Geckeler, E.K. *Molecular Pharmaceuticals*, Vol.5, No.2, 358-363.
3. Kwak, H.S.; Yang, K.M.; Ahn, *J. Agric. Food Chem.* 2003, 51, 7770-7774