

Title (en)

SMALL DIAMETER NANOCAPSULES, PROCESS FOR THEIR PREPARATION AND APPLICATIONS THEREOF.

Title (de)

NANOKAPSELN MIT KLEINEM DURCHMESSER, VERFAHREN FÜR IHRE HERSTELLUNG UND IHRE ANWENDUNGEN.

Title (fr)

NANOCAPSULES DE FAIBLE DIAMETRE, LEUR PROCEDE DE PREPARATION ET LEURS APPLICATIONS.

Publication

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Application

EP 94902998 A 19940110

Priority

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Abstract (en)

[origin: WO9415590A1] Nanocapsules typically having a diameter in the range of 20-150 nm are provided and consist of a polymeric shell formed of a surface active poly(alkyl cyanoacrylate) material arranged in one or more layers. The polymeric shell can be composed of a surface active poly(alkyl 2-cyanoacrylate) having general formula (I), wherein R is -CH₂-(-CH₂-)-mCH₃, -CH₂-(-CH₂-)-mCOOH, -CH₂-(-CH₂-)-mCOOR', or -CH₂CH₂-O-(-CH₂CH₂-O)-mR'; R' is -CH₃, -CH₂-(-CH₂-)-mCH₃, -C-(-CH₃-)-2-CH₂-C(CH₃)₃, or -O-Ar; m has a value of from 0 to 20; and n has a value of from 1 to 20, formed by the interfacial polymerisation of self-arranged micelles of the cyanoacrylate monomers. The nanocapsules can be used to encapsulate a wide range of water soluble and water insoluble active agents in high yield for delivery to a target system or locus, for example, drugs for use in therapy or prophylaxis.

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