**PEGylated liposomes**

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***Abstract***:

Liposomes are the safe and effective way to introduce the drugs and other supplements into our system that cannot be taken orally. But the problem with conventional liposomes is that they are invaded by phagocytes. This problem can be overcome by a process called PEGyalation, in which countless molecules of a synthetic, nontoxic polymer, polyethylene glycol(PEG), are attached, at one end of the polymer chain, to the surface of the liposome. Because of the affinity of PEG for water molecules, they are heavily hydrated. Thus ***PEGylated liposomes*** evade detection and destruction by phagocytes by virtue of their cloaks of hydrated PEG (polyethylene glycol) molecules. The two ***main advantages*** of PEGylated liposomes for delivering drugs or supplements are (1) ***increased bioavailability*** and (2) ***targeted delivery to the organs or tissues.***

***Key words:*** PEGylated liposomes, Bioavailability, Targeted drug delivery