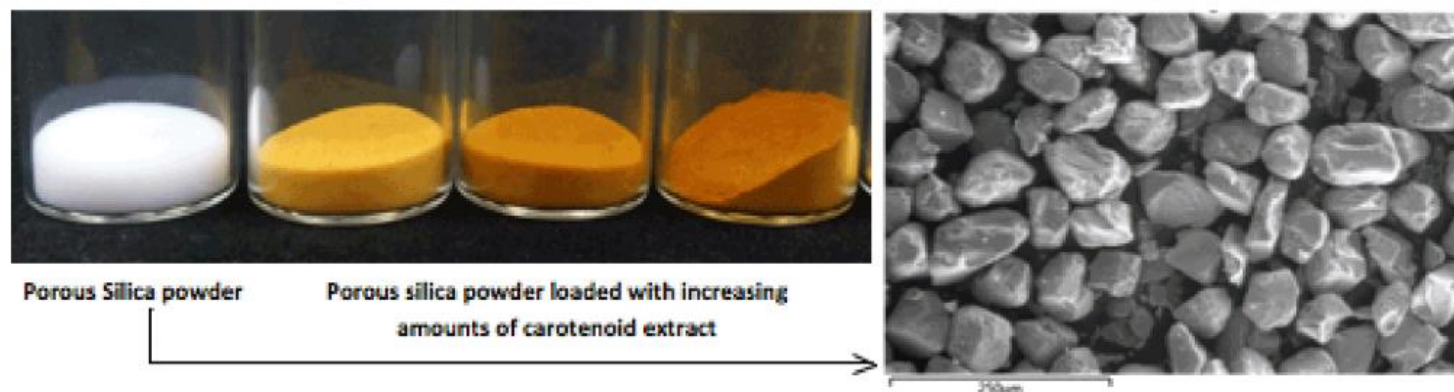


Water dispersible inorganic mesoporous carrier particles loaded with carotenoid-rich extracts from *Dunaliella salina*



Loading of carotenoids (and poorly soluble materials in general) into porous particles enables improved bioavailability upon e.g. oral administration.

Different strategies were tested to load a carotenoid-rich scCO₂ *Dunaliella* extract into porous silica. Silica particles containing up to 4% of extract and with excellent powder flow properties could be produced by means of the insipient wetness technique. The dissolution rate of the carotenoid-rich scCO₂ extract from loaded particles was much higher than of the extract “as is”. The loading of the carotenoids into the silica particles does not have detrimental effect on their chemical stability.

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