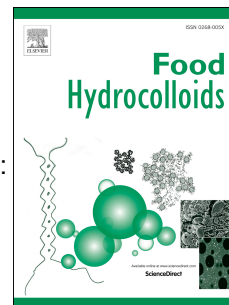


# Accepted Manuscript

Cold gelation of curcumin loaded whey protein aggregates mixed with k-carrageenan:  
Impact of gel microstructure on the gastrointestinal fate of curcumin

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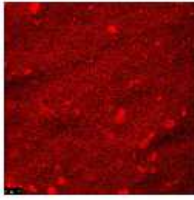
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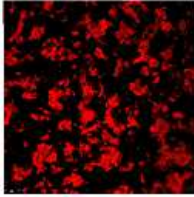
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conventional WPI gel



- Curcumin precipitation during gelation
- Low mechanical resistant
- High digestibility in upper gastrointestinal tract
- Curcumin release in upper gastrointestinal tract
- High degradation of curcumin in upper gastrointestinal tract

K-carragenan/WPI mixed gel



- High curcumin entrapment capacity
- High mechanical resistant
- Low digestibility in upper gastrointestinal tract
- High curcumin delivery to colon
- High protection of curcumin in upper gastrointestinal tract

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