

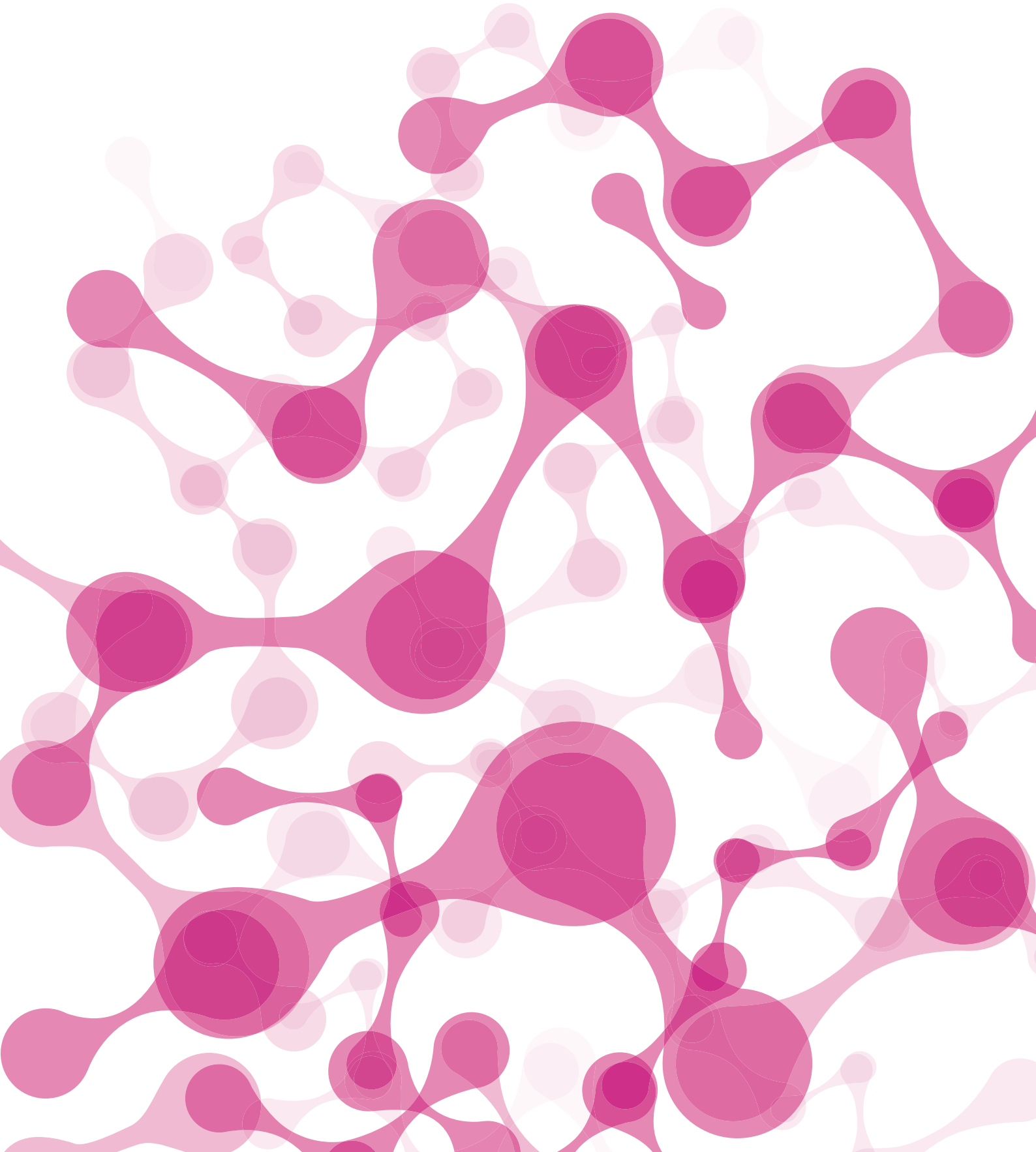


# Hydrosules<sup>TM</sup>

*(Home & Personal Care)*



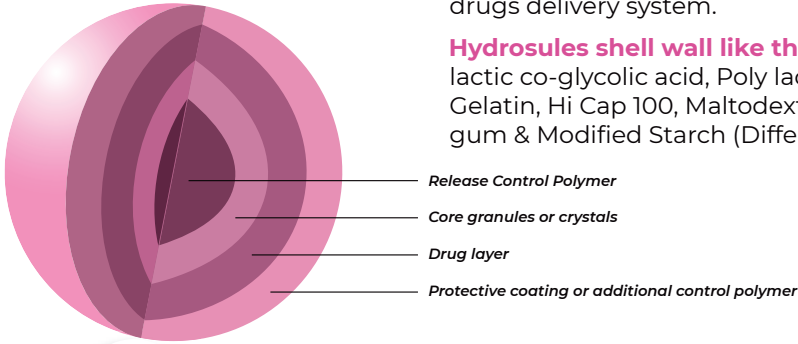
UMANG<sup>®</sup>  
encapsulation solutions



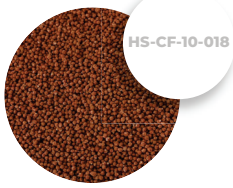
# Hydrosules™

Hydrosules technology offers a functional ingredients locked in hydrophilic shell and offers moisture triggered release system. The functional actives or ingredients which is enclosed with the natural or semisynthetic hydrophilic sensitive polymer shell. Microencapsulation process which enables the controlled released of actives, skin soften, antimicrobial agents and other drugs delivery system.

**Hydrosules shell wall like this:** Poly vinyl alcohol, Poly vinyl acetate, Poly lactic co-glycolic acid, Poly lactic acid, Sodium Alginate, Gum acacia, Gelatin, Hi Cap 100, Maltodextrin, PEG 400, PEG 4000, PEG 6000, Xanthan gum & Modified Starch (Different Grades)

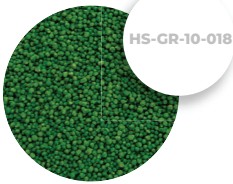


\*Particle sizes:  
XS < 0.2mm  
VS = 0.2 - 0.3 mm  
VS = 0.3 - 0.6 mm  
S = 0.6 - 0.8 mm  
M = 0.8 - 1.4 mm  
L = 1.4 - 2.0 mm  
XL = 2 - 5 mm



## Coffee

Encapsulated with water soluble polymer to enclose the Coffee extract in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞



## Green tea

Encapsulated with water soluble polymer to enclose the Green tea extract in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞



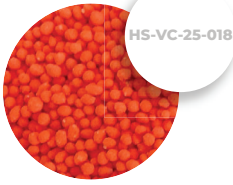
## Resveratrol

Encapsulated with water soluble polymer to enclose the Resveratrol in liquid form and offers pressure triggered release in finished product.



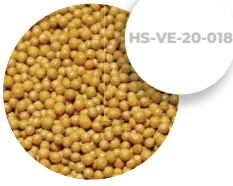
## Argan oil

Encapsulated with water soluble polymer to enclose the Argan oil in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞



## Vitamin C

Encapsulated with water soluble polymer to enclose the Vitamin C in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞



## Vitamin E

Encapsulated with water soluble polymer to enclose the Vitamin E in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞

## Glycolic acid

Encapsulated with water soluble polymer to enclose the glycolic acid extract in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞

## Kojic acid

Encapsulated with water soluble polymer to enclose the kojic acid extract in liquid form and offers pressure triggered release in finished product.

Applications: ☞ ☞ ☞ ☞

## Tea tree oil

Encapsulated with water soluble polymer to enclose the tea tree oil extract in liquid form and offers pressure triggered release in finished product.

## Ferulic acid

Encapsulated with water soluble polymer to enclose the ferulic acid extract in liquid form and offers pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞

## Tretinoin

Encapsulated with water soluble polymer to enclose the Tretinoin in liquid form and offers Pressure triggered release in finished product.  
Applications: ☞ ☞ ☞ ☞

& many more customized solutions...

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Oral Care



Skin Care



Hair Care



Home Care