

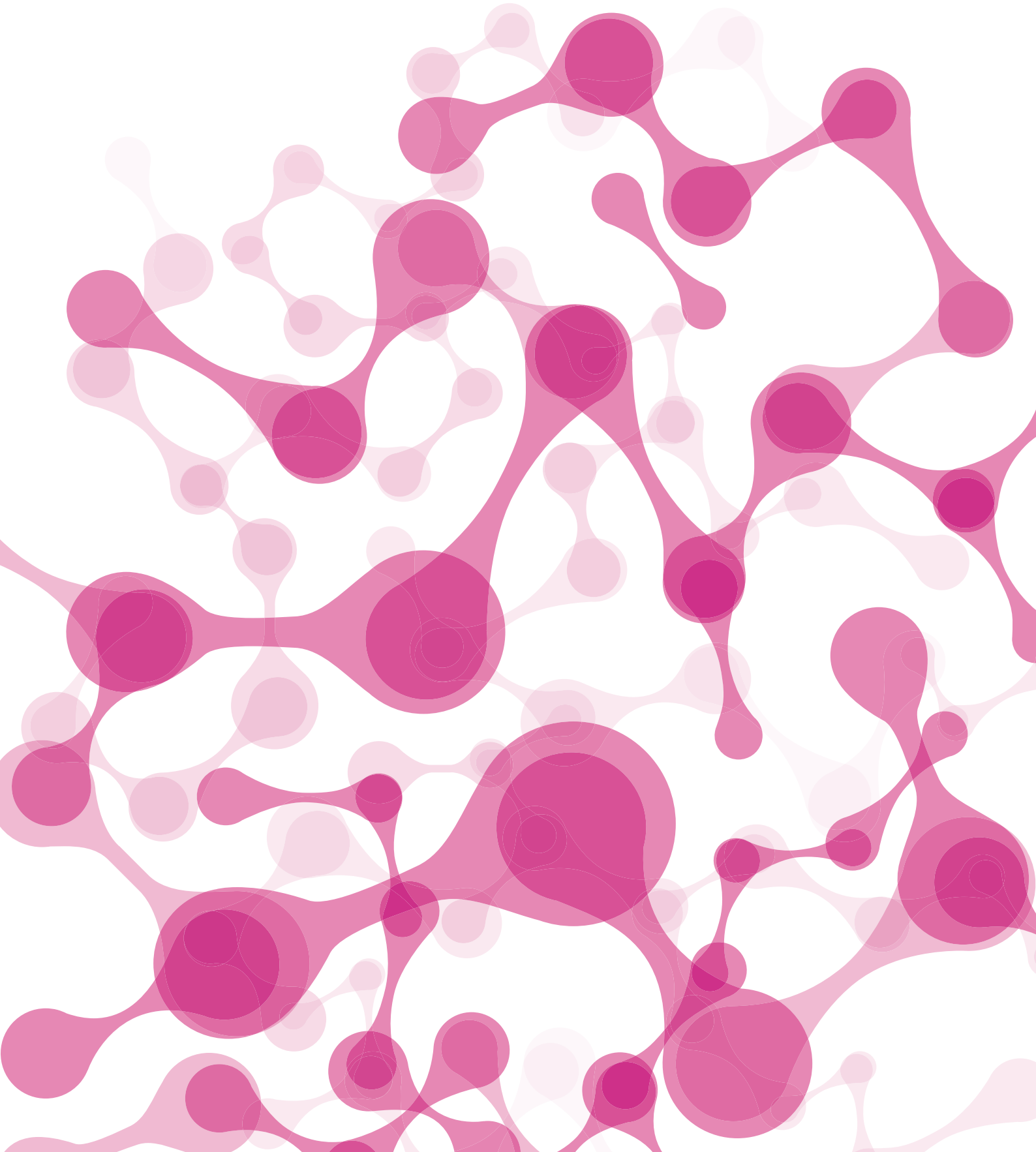


# Durasules<sup>®</sup>

*(Home & Personal Care)*



UMANG<sup>®</sup>  
encapsulation solutions

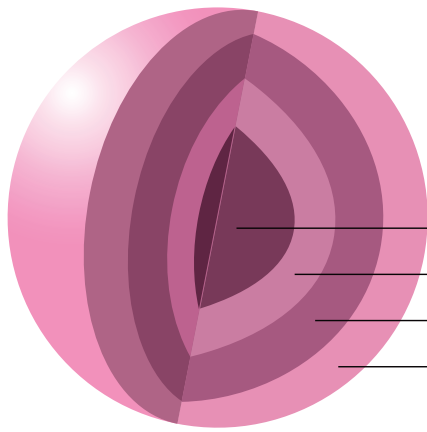


\*Available in natural & synthetic colours as per Pantone shade card

# Durasules®

Durasules Technology prevents water soluble and hygroscopic actives to prevent from external environment factors and increases shelf life of the finished product that contain encapsulated active ingredients.

**Durasules shell wall like this:** Maltodextrin, gum acacia, mannitol, sorbitol, PEG 6000 ,PEG 4000 and modified starch(different grades)



Release Control Polymer

Core granules or crystals

Drug layer

Protective coating or additional control polymer

\*Particle sizes:

XS = < 0.2mm

VVS = 0.2 - 0.3 mm

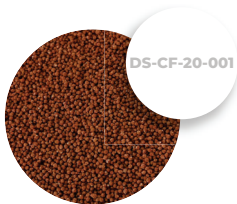
VS = 0.3 - 0.6 mm

S = 0.6 - 0.8 mm

M = 0.8 - 1.4 mm

L = 1.4 - 2.0 mm

XL = 2 - 5 mm

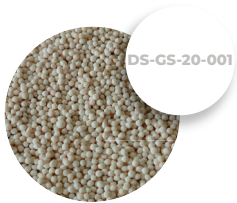


DS-CF-20-001

## Coffee extract

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Coffee extract

Applications:



DS-CS-20-001

## Ginseng extract

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Ginseng extract

Applications:

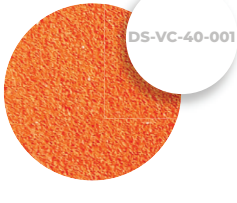


DS-CT-40-004

## Citric acid

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Citric acid

Applications:

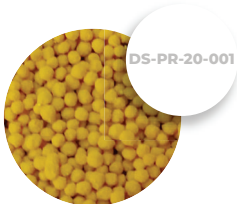


DS-VC-40-001

## Vitamin C

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Vitamin C

Applications:



DS-PR-20-001

## Protulacca extract

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Protulacca extract

Applications:

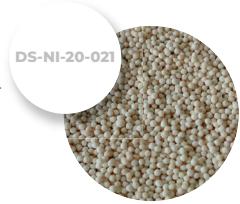


DS-GB-20-001

## GABA

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of GABA

Applications:

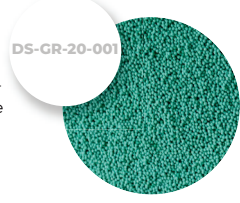


DS-NI-20-021

## Niacin

Encapsulated with water soluble polymer to reduce the hygroscopicity and crystallinity of Niacin

Applications:

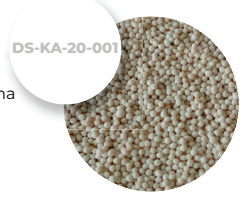


DS-GR-20-001

## Green Tea extract

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Green tea extract

Applications:



DS-KA-20-001

## Kojic acid

Encapsulated free flowing Mandarin aroma and controlled released of fragrances at targeted site

Applications:

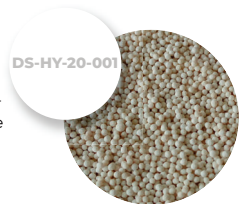


DS-AZ-20-001

## Azelaic acid

Encapsulated with water soluble polymer to reduce the hygroscopicity and crystallinity of Azelaic acid

Applications:

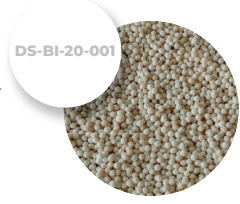


DS-HY-20-001

## Hyaluronic acid

Encapsulated with water soluble polymer to reduce the hygroscopicity and increase the shelf life of Hyaluronic acid

Applications:



DS-BI-20-001

## Biotin

Encapsulated with water soluble polymer to reduce the hygroscopicity and crystallinity of Biotin

Applications:

& many more customized solutions...

## UMANG PARTICLE SCIENCE PVT. LTD.

**Head Office Address:**

Unit 1 & Unit 2, 2<sup>nd</sup> Floor, Vicino (Mega Mall), New link road, Oshiwara, Andheri West, Mumbai, Maharashtra 400102

**Factory Address:**

Survey No. 42/A & B, NH8, Shirsad-Vajreshwari Road, Near BB Jadhav High School, Village - Chandip, Taluka- Vasai, District- Palghar 401 303.

+91-(0250)-6681601/02

info@umangglobal.com

www.umangparticle-science.com



Oral Care



Skin Care



Hair Care



Home Care

# Our Global Reach



 **Umang Pharmatech Pvt. Ltd. (Engineering)**

 **Umang Global Group Pvt. Ltd. (Pharma)**

 **Umang Particle Science Pvt. Ltd. (Personal Care)**

 **Umang Encapsulation Solutions Pvt. Ltd. (Nutraceuticals & Food)**


 **Labultima Process Technology Pvt. Ltd. (Spray Drying)**



## UMANG PARTICLE SCIENCE PVT. LTD.

Head Office Address: Unit 1 & Unit 2, 2<sup>nd</sup> Floor, Vicino (Mega Mall), New link road, Oshiwara, Andheri West, Mumbai, Maharashtra 400102

Factory Address: Survey No. 42/A & B, NH8, Shirsad-Vajreshwari Road, Near BB Jadhav High School, Village - Chandip, Taluka- Vasai, District- Palghar 401 303.

 +91-(0250)-6681601/02

 [info@umangglobal.com](mailto:info@umangglobal.com)

 [www.umangparticlescience.com](http://www.umangparticlescience.com)