

The Marine-based  
Alternative

EMBO  
CAPS<sup>®</sup>  
FISH





# EMBO CAPS<sup>®</sup> FISH

(Fish Gelatin Capsules)

The marine-based alternative to mammalian gelatin capsules

Raw materials derived from fish scales

Naturally BSE/TSE Free

Specification, stability, and machinability are identical with conventional gelatin capsules





# EMBO CAPS® FISH

## Similar but Unique

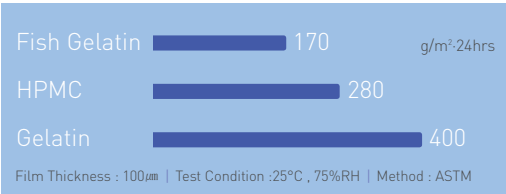
EMBO CAPS® FISH was developed through independent research by Suheung. While having similar basic properties of the conventional gelatin capsule, EMBO CAPS® FISH possesses excellent disintegration characteristics, colorant stability, low oxygen permeability and superior moisture deterrence.

### SUPERIORITY OF EMBO CAPS® FISH

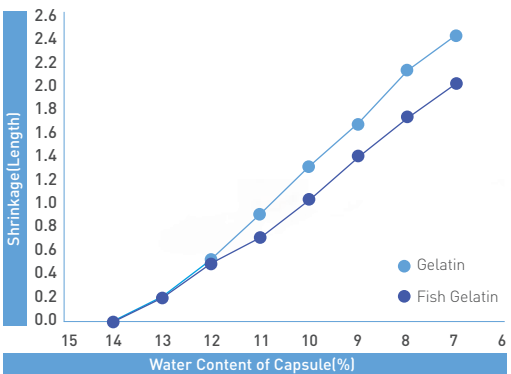
#### Low Oxygen Permeability

item	Unit	Result	Method
Fish Gelatin	cm <sup>3</sup> /m <sup>2</sup> 24hrs·atm	1.00	ASTM
HPMC		260	
Gelatin		1.00	

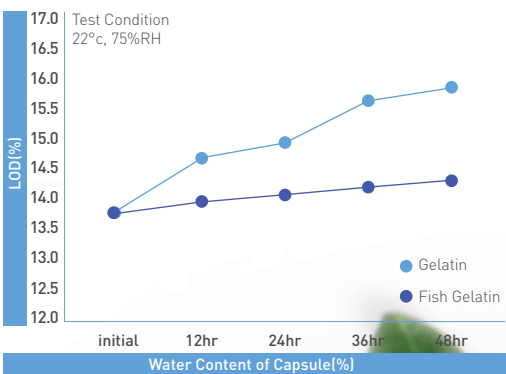
#### Extremely Low Water Vapor Permeability



#### Low Rates of Deformation and Shrinkage



#### Superior Moisture Deterrence



# PRODUCT DIVERSIFICATION

Building on rich experience and expertise in empty hard capsule manufacturing, Suheung offers a variety of capsule products.

## EMBO CAPS® VG



EMBO CAPS® VG is a non-animal based capsule manufactured with Hypromellose (HPMC) and is extremely suitable for filling powders with high hygroscopicity or with high moisture sensitivity.

## EMBO CAPS® FISH



EMBO CAPS® FISH is a marine-derived gelatin capsule naturally free of BSE/TSE. All specifications, stability and characteristics are identical to conventional gelatin capsules.

## EMBO CAPS® LP+



EMBO CAPS® LP+ is designed specifically for filling liquids and fine powders by minimizing the space between the cap and the body when they are closed, preventing possible leaks prior to banding and packaging.

## EMBO CAPS® LPR (Inhalation)



EMBO CAPS® LPR is used for dry powder inhalation (DPI) and leaves less than 5% residue of dosage on the inner wall of capsules.

## EMBO CAPS® PEG



EMBO CAPS® PEG is a patented gelatin based empty hard capsule with increased capsule strength to minimize brittleness, cracking and breakage when filled with moisture sensitive / hygroscopic dosages.

## EMBO CAPS® SLS-FREE



EMBO CAPS® SLS-FREE is produced without Sodium Lauryl Sulfate (SLS) to comply with Japanese food regulations

## EMBO CAPS® AP



EMBO CAPS® AP(Acid Protection) is a low-moisture, acid resistant capsule manufactured with Hypromellose which delays release of dosage and delivers to intestinal tract effectively.

## EMBO CAPS® VP



EMBO CAPS® VP(Vegetal / Pullulan) is made from Pullulan, a polysaccharide which is produced by fermenting plant-based natural material. Due to its low oxygen permeability, it supports the stability of the dosage from oxidation and also prevents the capsule from cross-linking.

## EMBO CAPS® VG<sup>α</sup> (ALPHA)



EMBO CAPS® VG ALPHA is a specially manufactured Hypromellose capsule with low moisture property making it suitable for hygroscopic dosages. EMBO CAPS® VG ALPHA shows greater strength, and is glossy in appearance.



SUHEUNG CAPSULE

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