


# HOW TO PROTECT YOUR ACID SENSITIVE INGREDIENTS?



## BioVXR ACID RESISTANT CAPSULES

Dah Feng Capsule Industry Co., Ltd.

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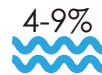


Design the Finest Capsules

# BioVXR ACID RESISTANT CAPSULES



Protect your acid sensitive ingredients  
from gastric acid



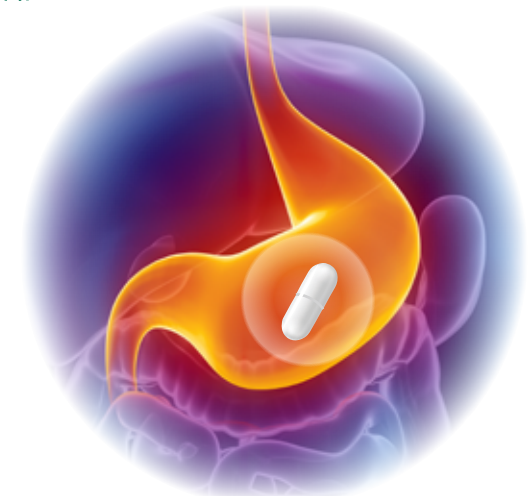
BioVXR® acid resistant capsules are made of HPMC, which is with both advantages of vegetarian capsules and the unique capability of acid resistance. BioVXR® can protect acid sensitive ingredients from gastric acid and delay release in intestinal tracts, without any additional coating or banding. BioVXR® is perfect choice for Probiotic, Enzyme, Collagen, Ginkgo, Grape seed and acid-sensitive ingredients.

- **Protect your acid sensitive ingredients from gastric acid** and delayed release in intestinal tracts
- Well-suited for **Probiotic, Enzyme, acid-sensitive ingredients**
- With advantages of HPMC capsules - low moisture, making it also suitable for **hygroscopic formulations**
- Without chemical solvents to meets Clean Label's need.
- Allergen Free, Preservative Free, Non-GMO

• US DMF No.: 030931

• Patents protected in the U.S and Taiwan

• Kosher, Halal and Vegetarian Society certified



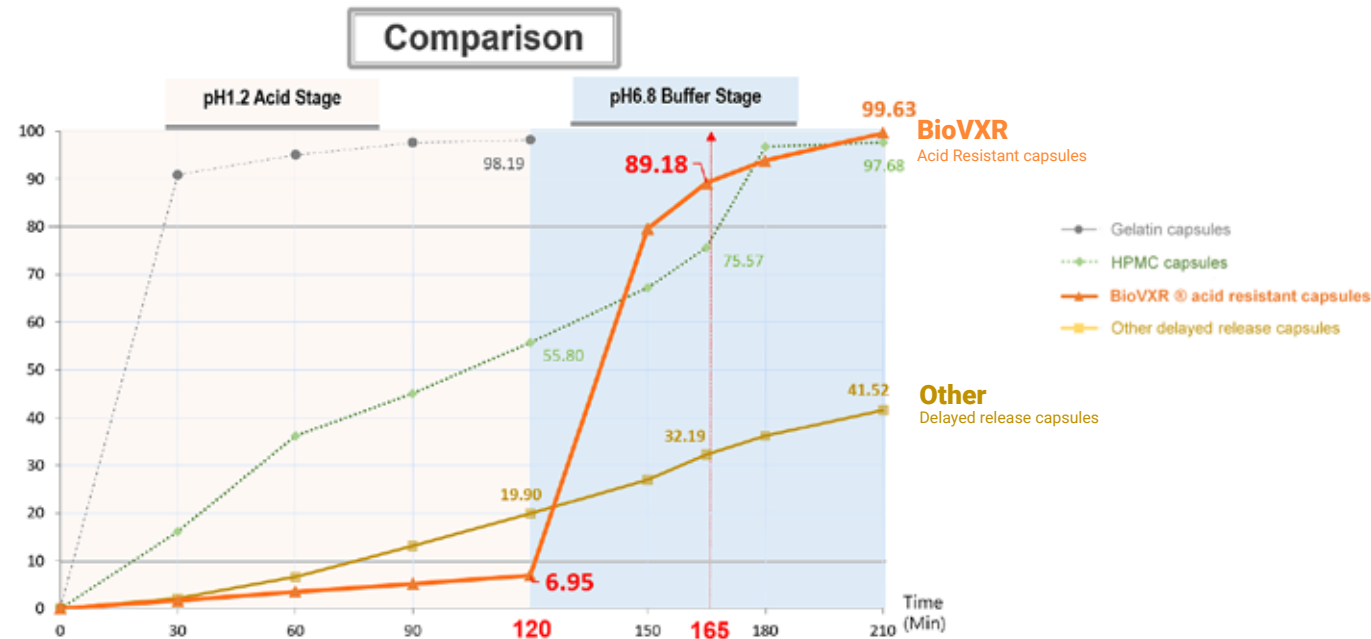
# BioVXR Dissolution

Reference: USP 40

– Acetaminophen Capsule,  
<711> Dissolution

## Indicator for observation

- After 120 minutes of the pH1.2 environment, the dissolution rate must be lower than 10%.
- After 45 minutes of the pH6.8 environment, the dissolution rate must be higher than 80%.



### Gelatin Capsules

After 30 minutes of the pH1.2 environment, gelatin capsules are nearly dissolved which have no protection for ingredient.

### HPMC Capsules

After 120 minutes of the pH1.2 environment, the dissolution rate is 55.8% which half of the ingredient has been released.

### BioVXR acid resistant HPMC capsules

After 120 minutes of the pH1.2 environment, the dissolution rate is **lower than 10%**, which has protection for the ingredient. After 45 minutes of the pH6.8 environment, the dissolution rate **reached 89.18%**, which most of the absorption occurred in intestinal tract.

### Other delayed release capsules

After 120 minutes of the pH1.2 environment, the dissolution rate is **higher than 10%**, which has weak protection for the ingredient. After 45 minutes of the pH6.8 environment, the dissolution rate **reached 32.19%**, which less than half of the ingredient has been released.





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