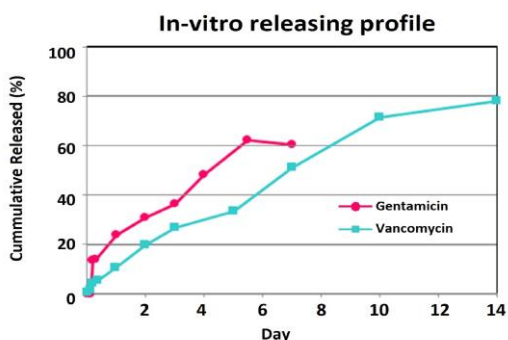




Advanced Drug Delivery system μ Capsul™ controlled-release polymer

μ Capsul™ is a bioabsorbable copolymer consist of mPEG and poly(lactide-co-glycolide). The defining feature of μ Capsul™ is its temperature reversible sol-gel transition, making it a game-changer in the field of pharmaceuticals and medical devices.

Cool μ Capsul™ appear in liquid form and alter to gel form in body temperature. In the gel state, the highly lipophilic and network structure of the μ Capsul™ make it an exceptionally efficient vehicle for localized administration of proteins and small molecules, especially for hydrophilic factors. By maintaining these factors, a high local concentration, we create a reservoir for these factors and can be released slowly over time.



Feature

- 100% synthetic, pathogen free
- Temperature reversible sol-gel transition
- Localized delivery of antibiotics/peptide/analgesics/vaccine
- Excellent biocompatibility and biodegradability
- Manufactures in ISO 13485 certified facilities
- FDA MAF registration: MAF 3119

Specification

Specification	Sterility	Catalog No.	Package	Storage
<0.5 EU/ml, 15%	Sterile	B00-04MA-15B	3ml	-20°C

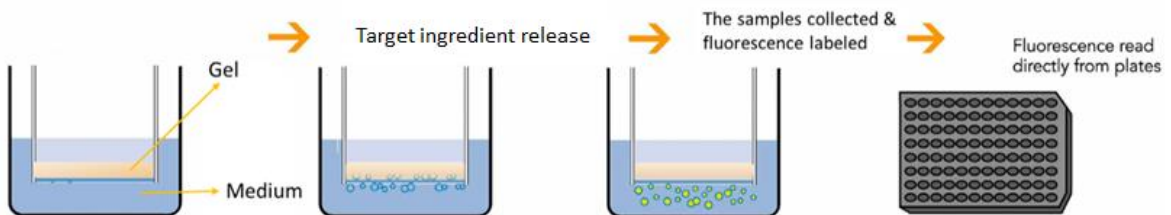


Procedures

In vitro control release testing in μ CapsulTM

(Please note: Following is a general guideline; further optimization might be required.)

1. Cool the μ CapsulTM solution and target ingredients to 2-8°C
2. Open the package in a sterile environment and add 0.3 mL of target ingredient directly to 3 ml μ CapsulTM solution on ice. You may also determine the ratio of target ingredients to μ CapsulTM according to your requirements.
3. Pipet gently to assist target ingredient dissolving, avoid bubble during this process.
 - Note: Before target ingredient dissolved completely, keep the mixture on ice to avoid μ CapsulTM turn into gel form.
4. After completely dissolving, load μ CapsulTM to a 24-well plate with Transwell inserts as the image below. Regarding the amount of μ CapsulTM, for example, 200 – 300 μ L is sufficient for a well of a 24-well plate.



5. Put it into an incubator (37 °C), μ CapsulTM will turned into solid 3D gel around 5 minutes.
6. Add 1 ml PBS buffer solution for each well.
7. Collect the released medium at a regular interval, for example, 12-24hr at the beginning. Then replaced each well with fresh PBS immediately.
8. Determined and analysis is the target ingredient in released medium by spectrophotometry, ELISA or other suitable method. The cumulative release curve then could be calculated.