

Actimask®

Taste Masked Actives

The success of your orally administered tablet depends on how the tablet tastes and how easy it is to take. In fact, if a tablet has a bitter or unpleasant taste, it can lead to patient noncompliance or even a failed product launch. That's why taste-masking is an essential part of SPI Pharma's product development process, and an essential element of patient friendly formulations.

There are several challenges to consider when taste-masking a drug. For example, a physical barrier around the drug particle may be required to prevent direct contact with the taste buds when flavors and sweeteners fail. Also, the coating must provide a sufficient barrier to mask taste yet must also dissolve quickly enough not to delay drug release. Finding the balance between dissolution and taste masking of the drug requires expertise of materials and application.

Actimask® Technology

SPI Pharma offers taste masked acetaminophen and ibuprofen, two popular analgesic/antipyretic drugs, by encapsulating the active particles within a gelatin coating using a coaservation process. The hydrophilic coating creates a smooth mouthfeel and provides an excellent taste barrier. Additionally, the process is completely aqueous, therefore there is no concern of residual solvents as with many other taste masked products.



Actimask Acetaminophen

Actimask taste masked acetaminophen is an ideal choice for the formulation of chewable or orally dispersible dosage forms. The aqueous hydrophilic coating delivers an excellent taste barrier. In addition, the uniform hydrogel coating provides a smooth surface that has an excellent mouth feel, enhanced palatability, and is easy to swallow.

The gelatin coating provides effective taste masking by delaying the release of the API while the product is still in the oral cavity. This does not affect the product's ability to meet compendial dissolution specifications for immediate release acetaminophen as noted in Figure 1.

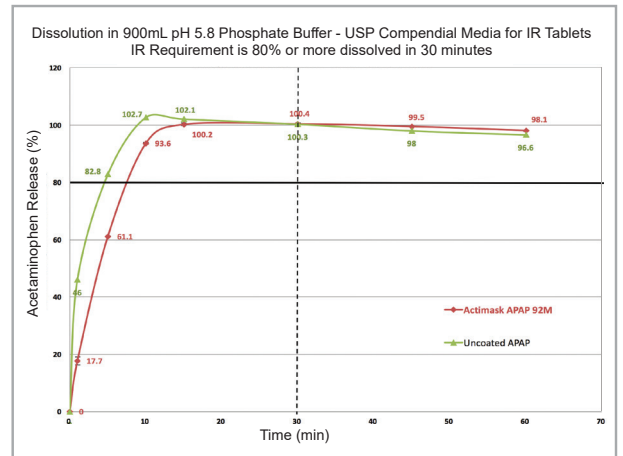
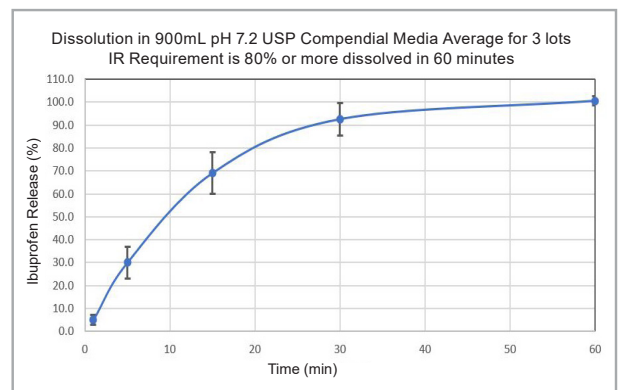


Figure 1

Actimask Ibuprofen

It is well known that uncoated ibuprofen causes an intense burning sensation when exposed to the oral cavity and throat. The hydrophilic, Actimask coating effectively taste masks the active and reduces to extremely low levels the burning sensation that many patients experience with poorly masked or unmasked ibuprofen products.

As with the Actimask Acetaminophen, dissolution is delayed while the product is still contained in the oral cavity with virtually no effect on the overall dissolution.



SPI Pharma is a global leader in highly engineered products and innovative solutions that improve the formulation and delivery of medicine. We provide critical drug development services that focus on efficiency and accelerated production, with the highest-quality standards.

Explore the possibilities by scheduling a technical review today.

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