



Hard two-piece HPMC capsules
for pharmaceutical applications

The low moisture hard two-piece HPMC capsule for delivering hygroscopic pharmaceutical drugs



Pharmaceutical Grade



Preservative Free
QUALICAPS® INNOVATION



100% Vegetal Origin
QUALICAPS® INNOVATION



Lower Moisture Content
(2.0 - 3.5%)



Standard HPMC Equivalent
Dissolution Profile



Inhalation Grade
QUALICAPS® INNOVATION



Chemically Inert



Minimal Brittleness

COMPOSITION

- Polymer (Hypromellose)
- Gelling agent (Carrageenan)
- Gelling promoter (Potassium Chloride)
- Dyes

MAIN FEATURES

- Maintain their physical stability and show minimal brittleness when exposed to ambient conditions with low humidity
- Chemically stable and does not undergo crosslinking reactions, making them ideal for drug development
- Ideal for moisture-sensitive and hygroscopic pharmaceutical drugs
- An inhalation grade is available:

MOISTURE CONTENT

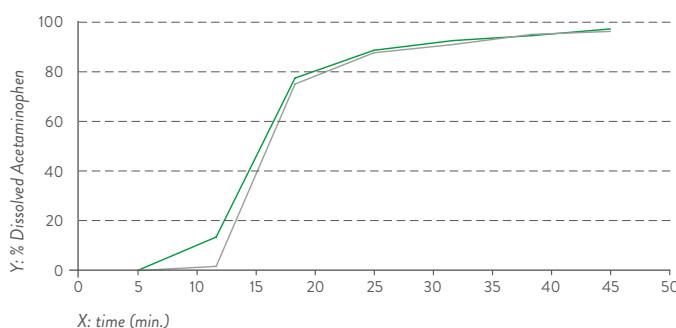
2.0% – 3.5%

Quali-V® I
Extra Dry

DISSOLUTION PROFILE

Quali-V® Extra Dry capsules comply with the **USP dissolution test requirements**
(≥ 80% dissolved Acetaminophen at 45 min. / ≥ 80% dissolved Omeprazole at 45 min.)

pH 1.2



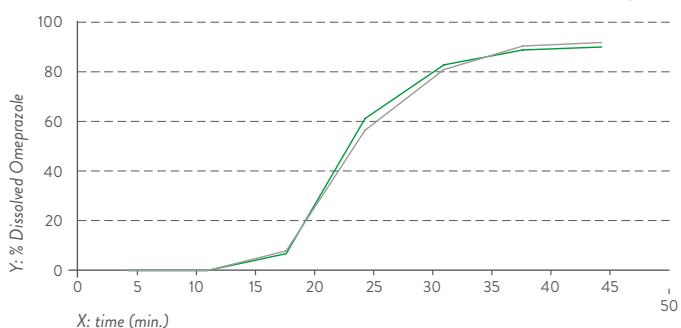
Capsule fill formulation: Acetaminophen

Capsules: Size 3 (n=6)

Dissolution method: Paddle at 50 rpm – “Acetaminophen Capsules”

USP monograph

pH 6.8



Capsule fill formulation: Omeprazole pellets

Capsules: Size 3 (n=6)

Dissolution method: Paddle at 50 rpm – “Omeprazole Delayed-Release Capsules” USP monograph

— Quali-V® Extra Dry capsule
— Quali-V® standard capsule

Qualicaps