

Encapsulation Made Easy



BASES

CAPSUBLEND[®] EXCIPIENTS



Proven to be the most versatile of dosage forms for over a century, capsules have always played an important role in drug delivery for pharmaceutical applications. However, their preparation has not always been evident and can most often be time consuming. To minimize the headache of excipient selection and blend preparation, while ensuring a higher level of efficacy, MEDISCA has designed a unique line of products: **CapsuBlend[®] Excipients**. Based on the Biopharmaceutical Classification System (1995), which categorizes drugs mainly according to their solubility amongst other properties, **CapsuBlend[®] Excipients** represent a conceptual breakthrough for the compounding industry. Our customised, ready-to-use formulations for poorly soluble, highly soluble, or hygroscopic drugs act as the perfect fillers for immediate-release capsules.

*Want to know how **CapsuBlend[®] Excipients** are more effective? Check out MEDISCA's article recently published in the International Journal of Pharmaceutical Compounding (Sept/Oct 2013) to find out! Study is available on medisca.com*

FEATURES & BENEFITS

- ENHANCED DRUG DISSOLUTION
- IMPROVED CHEMICAL STABILITY
- INCREASED EFFICIENCY
- REDUCED STATIC OF ACTIVES
- LACTOSE-FREE

*" I really enjoy compounding with MEDISCA's **CapsuBlend[®]** products. They render the final mixture much more homogenous and aesthetically pleasing. Also, to ensure that these products do in fact dissolve more quickly, I conducted comparative tests using other excipients from a competitor. Results showed that **CapsuBlend[®]** dissolved faster, while the competitor's formed a paste. "*

JEANNINE MATTE, R.Ph. – Owner Pharmacist

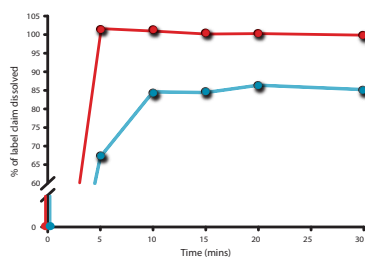
From a dissolution point of view...



To demonstrate the importance of excipient selection and drug compatibility, MEDISCA partnered up with Pharmatest Laboratories, a Pharmaceutical testing laboratory with 25+ years of experience in providing analytical services. A comparative study was established between MEDISCA's **CapsuBlend® Excipients** and Lactose Monohydrate, a widely preferred non-specific excipient. Although commonly used, Lactose is known to provide poor powder blend flowability and to interact negatively with various drug actives.

THE RESULT : Enhanced USP – compliant drug dissolution profiles with CapsuBlend®

Comparative drug release profiles of Levocarnitine 250mg capsules in **CapsuBlend®-H** versus Lactose Monohydrate



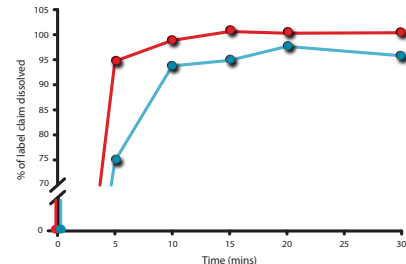
CapsuBlend®-H resists moisture sorption and provides the stability needed for proper efficacy

CapsuBlend®-H offered a statistically significantly greater dissolution of Levocarnitine when compared to capsules filled with Lactose Monohydrate with $p < 0.05$. Due to chemical incompatibility and instability between Lactose and Levocarnitine, capsules with Lactose showed a low dissolution efficiency.

CapsuBlend®-P enhances dissolution by improving solubility

This unique premixed blend promotes a faster drug dissolution by improving the solubility of poorly soluble actives such as Theophylline. **CapsuBlend®-P** enabled a superior dissolution of Theophylline when compared to capsules filled with Lactose Monohydrate with $p < 0.05$.

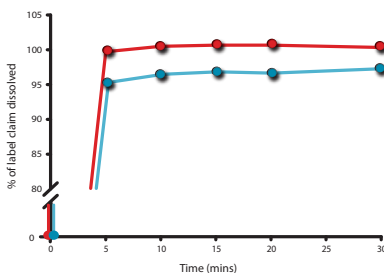
Comparative drug release profiles of Theophylline 100mg capsules in **CapsuBlend®-P** versus Lactose Monohydrate



CapsuBlend®-S provides desired disintegration without impeding dissolution

MEDISCA's premixed blend for soluble drugs allowed for an improved dissolution of Metronidazole when compared to the capsules compounded with Lactose Monohydrate as a filler. The difference in performance is statistically significant with $p < 0.05$.

Comparative drug release profiles of Metronidazole 250mg capsules in **CapsuBlend®-S** versus Lactose Monohydrate



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