FORMULATION DESIGN DEVELOPMENT AND SCALEUP



Do you need help to design more robust tablet formulations? Want to know how to improve your formulation blends during scale-up?

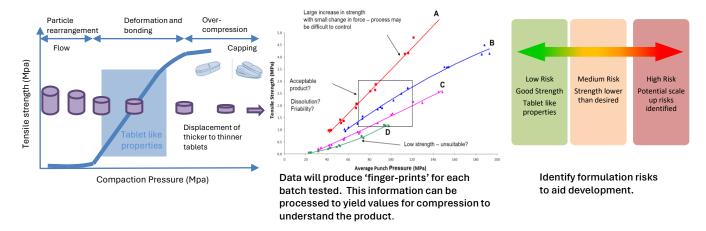
We can help you design more robust tablet formulations by:

- Using as little as 20 g of powder blend to assess scale up suitability of early prototype formulations.
- Screen DoE batches to provide tabletability data for statistical analysis. Get the most out of small batch sizes.
- Assess the key functional properties of your blends.
- Discover if the formulation is suitable for commercial production and act early if its not.

How do we do it?

Compactability and Tabletability Tests:

- Our Compaction Simulator is used to produce compacts across a range of compression forces. We can compare different variables and assess the impact e.g. formulation changes, process changes, environmental effects.
- Tensile strength is measured to assess the bonding within the compact. If the compact is of a low strength it will impact on key quality attributes and reduce the chances of a successful scale up.



Example Case Study

- A formulation screening on 3 lead formulations showed that two had the potential to compress at production speeds.
- We concentrated efforts on lead formulation and one back-up.
- The compaction predictions reduced number of scale-up batches required and associated analytical costs.
- By choosing scalable formulation removed need for reformulation at Phase II and bioequivalence study.
- √ This Project saved our Client development time and cost saving of 3 Months!

Contact Us