

Faster and More Systematic Investigation of Raw Material and Process Space

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Formulation sciences play a key role in the development of new products (formulate your innovation) and optimization of existing products (innovate your formulation). Typical challenges inherent to formulation are:

- Bans on commonly used additives / raw materials
- Additives / raw materials with lack of biodegradability
- Facing the consequences of REACH regulations
- Never really questioned the composition and process of your formulations
- Push to release innovative highly effective products quickly
- Need to produce more formulations in less time
- Growing pressure for sourcing of sustainable materials
- Facing quality issues of production batches
- ...

Consequently, a large number of formulations are necessary to develop a new product or to re-formulate existing products. These challenges highlight the need for High-Throughput and High-Output formulation.

This presentation focuses on the challenges presented by systematically investigating both the raw materials and the process space for efficient, reliable scale-up.

The success story towards meeting these challenges is highlighted by a series of formulation examples.

- Sunscreen formulations
- Skin care formulations
- Automation of formulation and testing