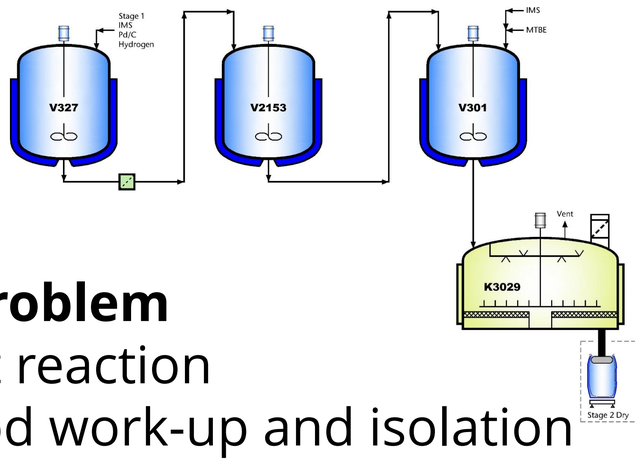
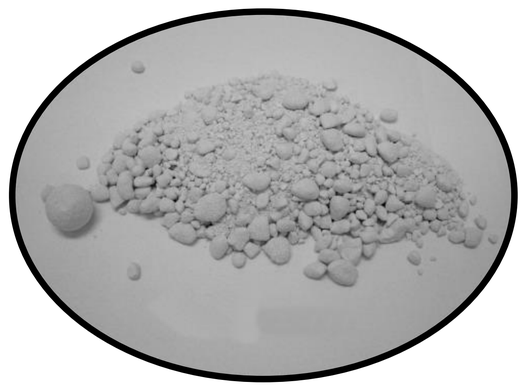
Teamwork kicks the balls into touch

Two Britest members working together to solve a problem with an intermediate



The Problem

- ✓ Fast reaction
- ✓ Good work-up and isolation
- ✓ High Yield
- ✓ Good product purity
- ✗ Poor product physical form



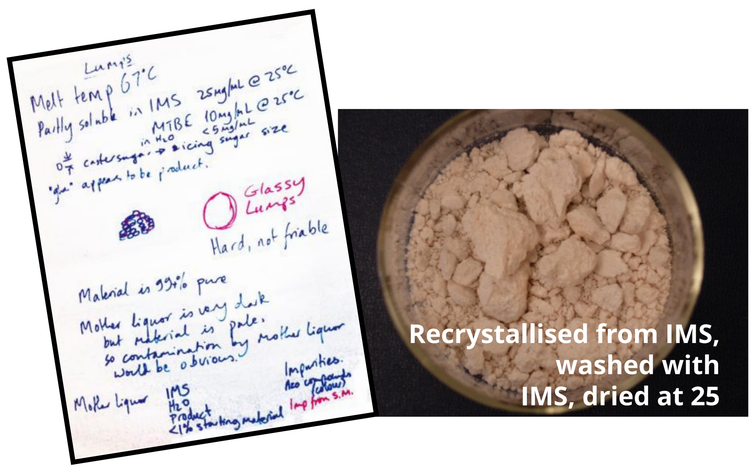
The Product

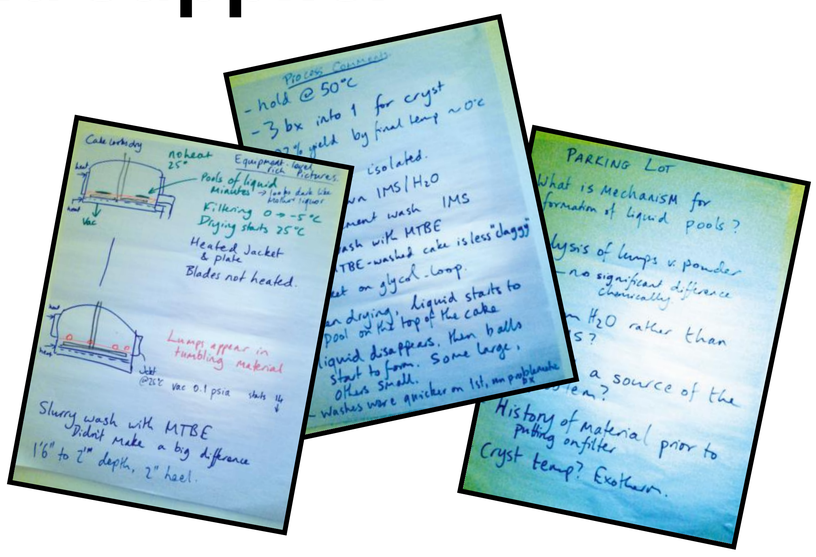
- ✗ Large lumps or “balls”
- ✗ Gave difficulties downstream

Joint Britest study: customer and supplier

FUJIFILM
FUJIFILM Imaging Colorants

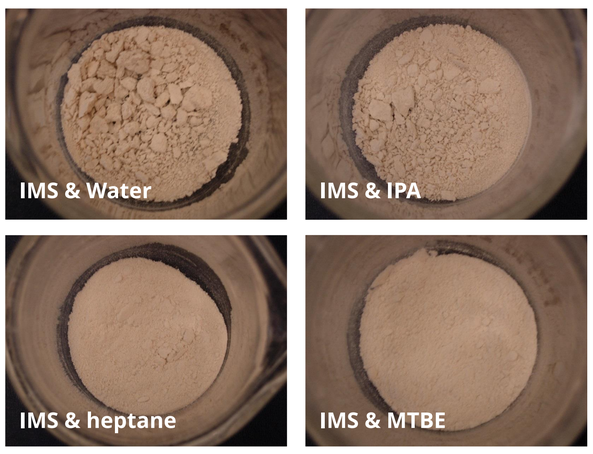
Shasun
Pharma Solutions





Action plan

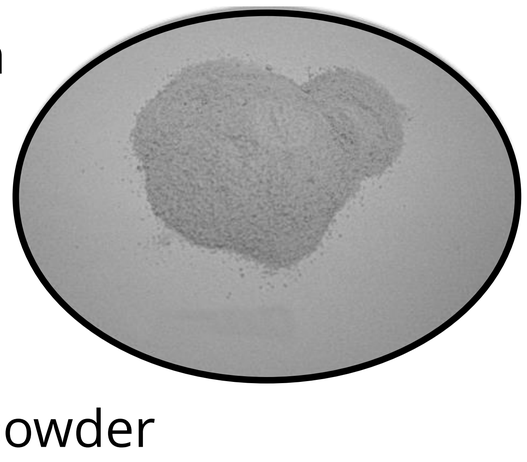
- Test alternative wash solvents



Solvent	Solubility at 25 °C (mg / ml)
IMS	25
MTBE	10
IPA	5
water	< 5
heptane	< 5

Revised process

- Two wash solvents
- Controlled filter blow down
- Controlled dryer agitation
- Defined drying profile



Results

- ✓ Product is predominately powder
- ✓ No offload blockages
- ✓ 25% faster plant throughput
- ✓ Reduced milling losses
- ✓ Good downstream processing

Supporting organisations in gaining value from process understanding