

## Accepted Manuscript

Title: Experimental analysis of inter- and intra-batch variation of granule porosity, stiffness and dissolution rate

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## Experimental analysis of inter- and intra-batch variation of granule porosity, stiffness and dissolution rate

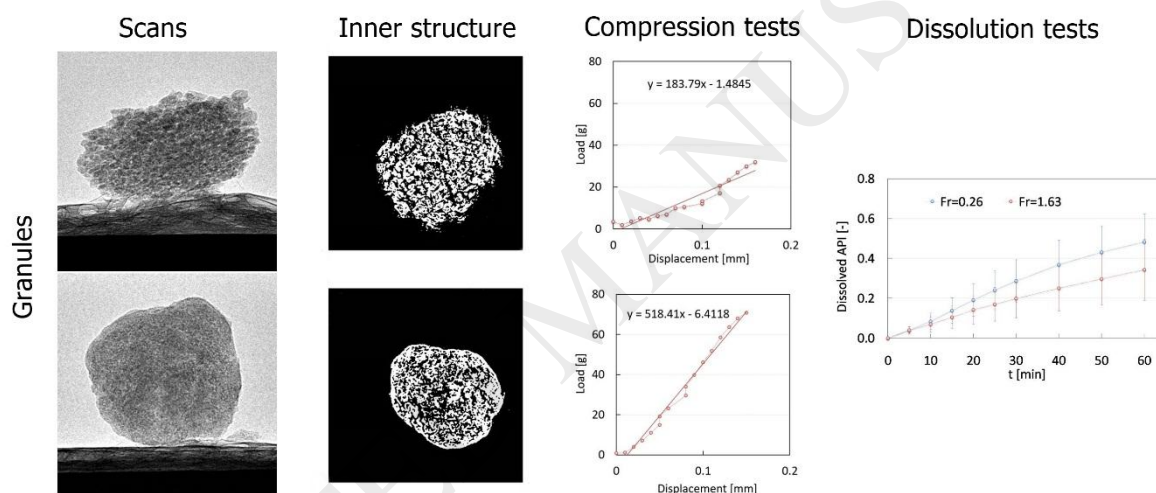
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### Graphical abstract



### Highlights

- Pharmaceutical granules were produced at laboratory and manufacturing scale for a range of Froude numbers
- X-ray micro CT analysis reveals surprising intra-batch diversity of granule structures
- Structure-property relationships were established for stiffness and dissolution at inter- and intra-batch level
- Novel coupled experiments were performed, relating individual granule structure with single granule dissolution curve

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