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$$X_c = \frac{A_{crystalline}}{A_{crystalline} + A_{amorphous}} * 100$$

Physicochemical stability and aerosolization performance of dry powder inhalation system containing ciprofloxacin hydrochloride

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Shortened title: DPI accelerated stability test of ciprofloxacin hydrochloride

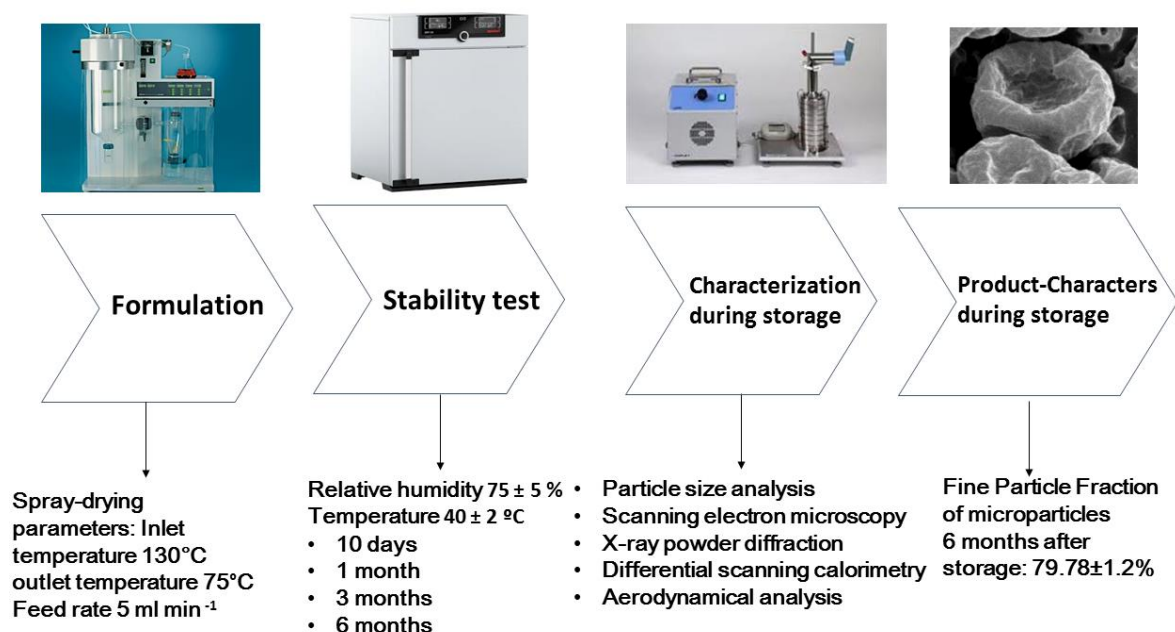
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Graphical Abstract



Highlights

- The role of polyvinyl alcohol, L-leucine and Hydroxypropyl-beta-cyclodextrin on physico-chemical stability and aerolization performance of dry powder inhalation systems was investigated
- Laser diffraction, SEM, DSC, XRPD and *in vitro* aerodynamical methods were applied

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