Cite this as: Si-jun WU, Ping QIU, Pian LI, Zheng LI, Wen-long LI, 2020. A near-infrared spectroscopy-based end-point determination method for the blending process of Dahuang soda tablets. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **21**(11):897-910.
http://doi.org/10.1631/jzus.B2000417

A near-infrared spectroscopy-based end-point determination method for the blending process of Dahuang soda tablets

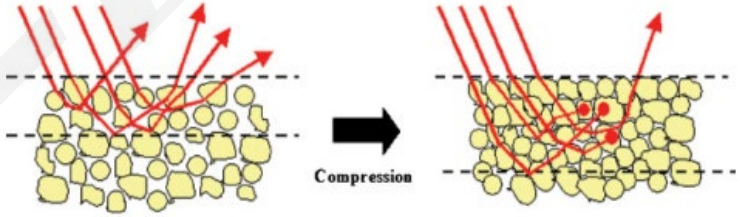
Key words: Process analytical technology, Blending process, Near-infrared spectroscopy, End-point determination

Research Summary

This review mainly focused on developing a more robust model. The model with density effect showed better prediction performance.





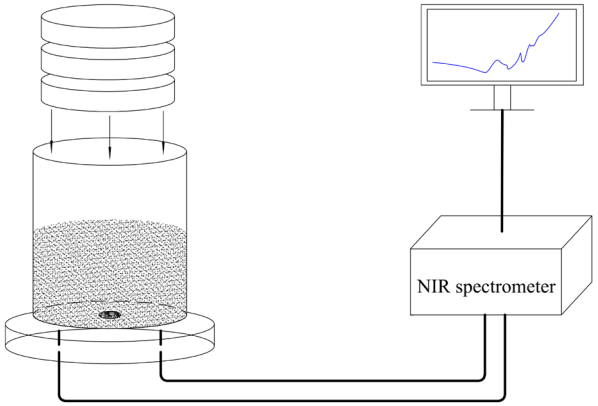


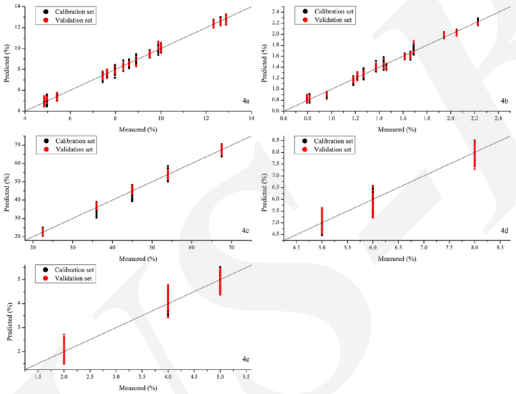
Accurate monitoring of the end point of the mixing process

- **Fast, non-invasive testing**
- **Environmental friendly**
- **Timely feedback**

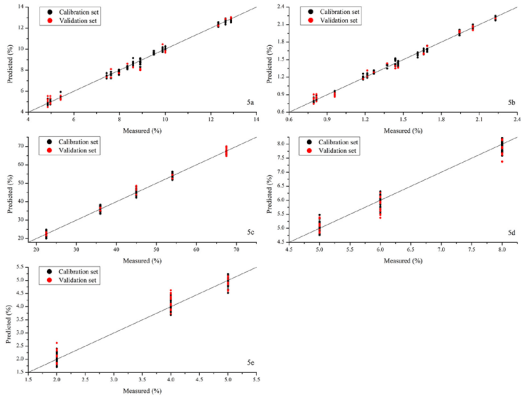
Improve product quality consistency

Innovation points

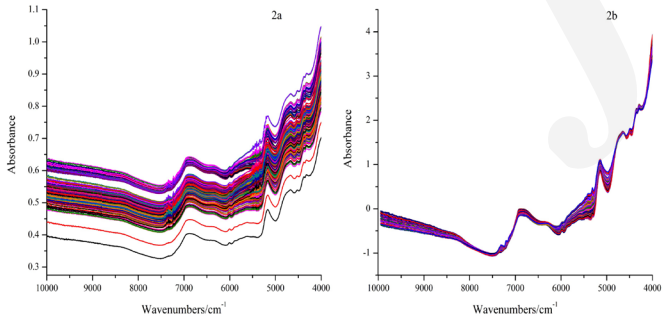


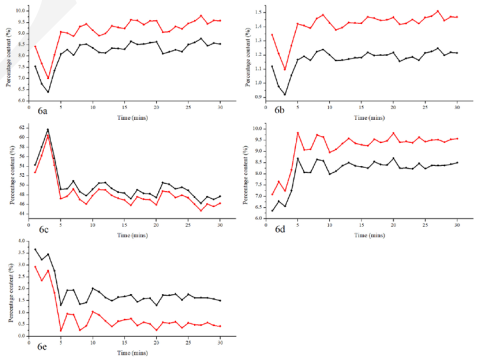


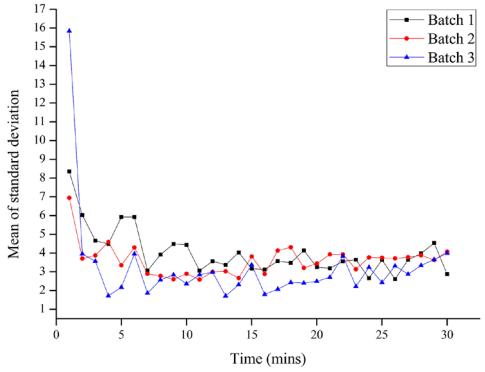
Model with density effect



Model without density effect







Innovation points

1 | **The density variables were included in the model through the gravity of the discus.**

2 | **Both qualitative and quantitative methods were used to determine the end-point.**

3 | **Realize the end-point discrimination of APIs and three kinds of excipients at the same time.**

JZUSB