

Accepted Manuscript

Title: Ribbon thickness influences fine generation during dry granulation

Authors: Wei-Jhe Sun, Changquan Calvin Sun

PII: S0378-5173(17)30546-X

DOI: <http://dx.doi.org/doi:10.1016/j.ijpharm.2017.06.038>

Reference: IJP 16762

To appear in: *International Journal of Pharmaceutics*

Received date: 1-3-2017

Revised date: 9-6-2017

Accepted date: 12-6-2017



Please cite this article as: Sun, Wei-Jhe, Sun, Changquan Calvin, Ribbon thickness influences fine generation during dry granulation. *International Journal of Pharmaceutics* <http://dx.doi.org/10.1016/j.ijpharm.2017.06.038>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Ribbon thickness influences fine generation during dry granulation

Wei-Jhe Sun and Changquan Calvin Sun*

Pharmaceutical Materials Science and Engineering Laboratory, Department of Pharmaceutics, University of Minnesota, 9-127B Weaver-Densford Hall, 308 Harvard Street S.E., Minneapolis, MN 55455

*Corresponding author

Changquan Calvin Sun, Ph.D.

9-127B Weaver-Densford Hall

308 Harvard Street S.E.

Minneapolis, MN 55455

Email: sunx0053@umn.edu

Tel: 612-624-3722

Fax: 612-626-2125

Abstract

Uncontrolled fine generation during the milling process is a challenge for dry granulation by roller compaction. Here, we report the observation that ribbon thickness can significantly influence percentage of fines. Thus, among other parameters, ribbon thickness needs to be controlled for the development of a robust roller compaction process and ensure successful scale up.

Keywords. Dry granulation, roller compaction, ribbon thickness, microcrystalline cellulose

Download English Version:

<https://daneshyari.com/en/article/5550227>

Download Persian Version:

<https://daneshyari.com/article/5550227>

[Daneshyari.com](https://daneshyari.com)