Impact of Manufacturing Process on Critical Quality Attributes of Multivesicular Liposomes

Jungeun Bae^{1,2}, Mehulkumar Patel³, Soumyarwit Manna^{2,4}, William Smith^{1,2}, Anh Vo^{1,2}, Yan Wang², Stephanie Choi², Darby Kozak², Jiwen Zheng³, Xiaoming Xu¹

- U.S. Food and Drug Administration (FDA)

- 4. Division of Bioequivalence I, Office of Bioequivalence, OGD, CDER, U.S. FDA



1. Division of Product Quality Research, Office of Testing and Research, Office of Pharmaceutical Quality, Center for Drug Evaluation and Research (CDER),

2. Office of Research and Standards, Office of Generic Drugs (OGD), CDER, U.S. FDA

3. Division of Biology, Chemistry and Materials Science, Office of Science and Engineering Laboratories, Center for Devices and Radiological Health, U.S. FDA

This study provided an improved understanding on impact of the manufacturing process on the quality of MVLs (e.g., morphology, stability and drug loading). This understanding may be useful for comparative evaluation of

This project was supported by FDA Nano CORES grant and in part by an appointment to the Research Participation Program at Center for Drug Evaluation and Research administered by the Oak Ridge Institute for Science and Education through an agreement between the U.S. Department of Energy and FDA (JB and WS). The authors would like to acknowledge FDA Advanced Characterization Facility (ACF), CDRH/OSEL/DBCMS







ADVANCING PHARMACEUTICAL SCIENCES, CAREERS, AND COMMUNITY