

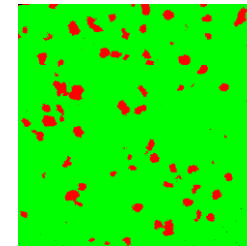
Investigation of Drug Migration during drying of Granules*

*Drug Migration is the phenomenon due to which the API tends to leach out to the surface of tablets/granules upon drying.

- We are studying the extent of drug migration subject to factors such as: Solubility of API, drying rate, viscosity of binder solution and porosity of granules.
- Chemical Analysis methods to determine drug distribution between size classes:
 1. Conductivity testing
 2. UV-Vis Spectroscopy

• Imaging Techniques used for the study.

1. **3-D Raman Imaging:** to determine the distribution of content within the tablet. Migration will show super-potent drug regions in the outer core of the tablet.



2. **microCT:** to determine the spatial density distribution within the tablet.

