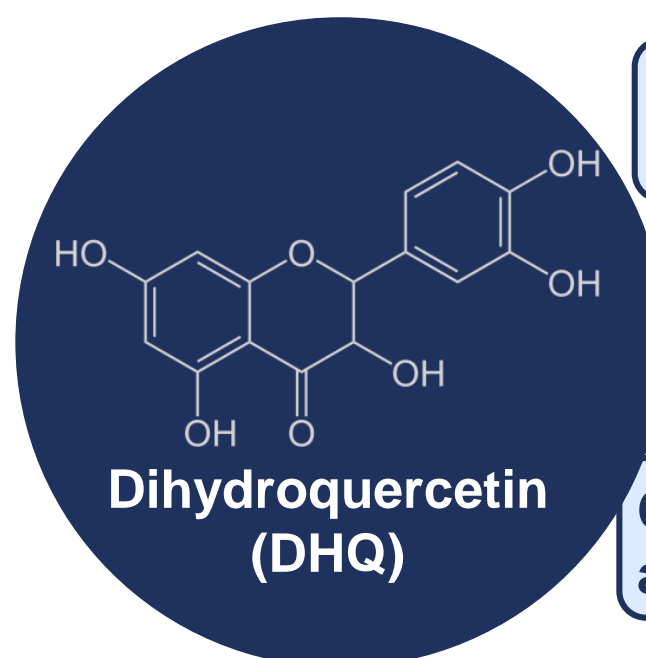




- Less hazardous chemical synthesis
- Safer solvents
- Design for degradation

«Green» phase modification of dihydroquercetin with L-lysine



Natural compound

Wide range of biological effects

Commercially evaluable active pharmaceutical ingredient

Purpose: To obtain a new functional material for pharmaceutical industry based on DHQ using «green» chemistry methods

API of DHQ
Ametis JSC, Russia

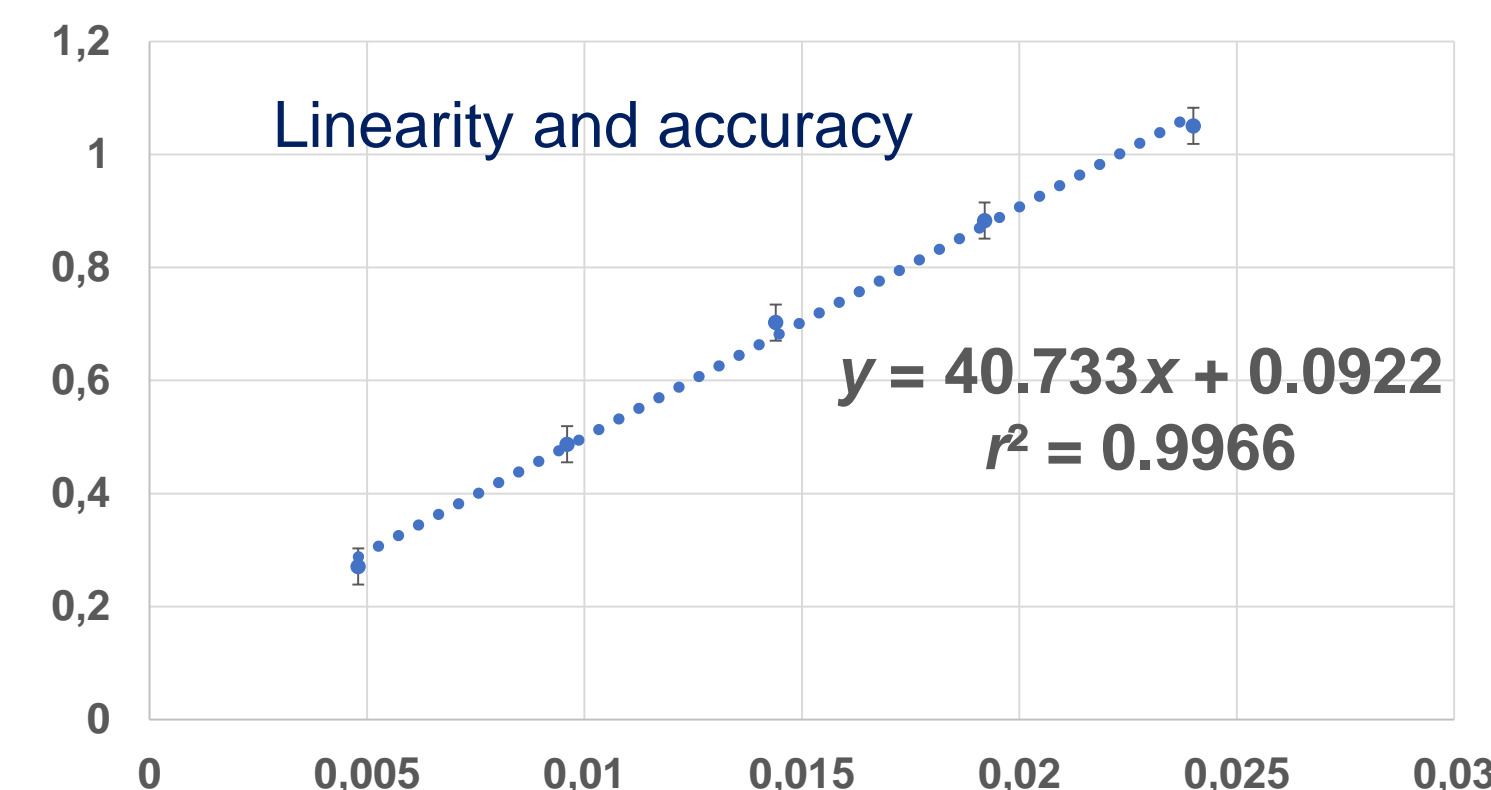
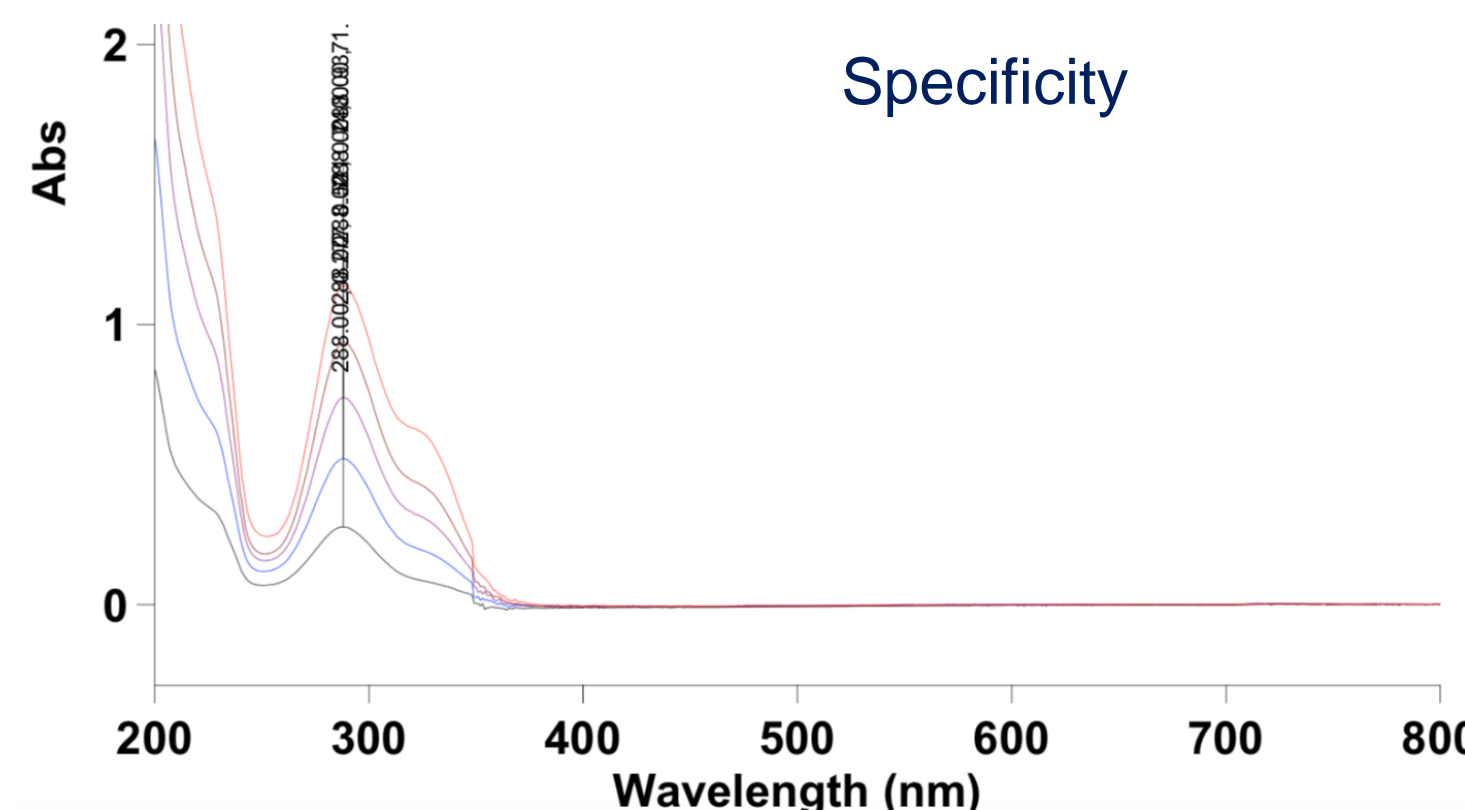
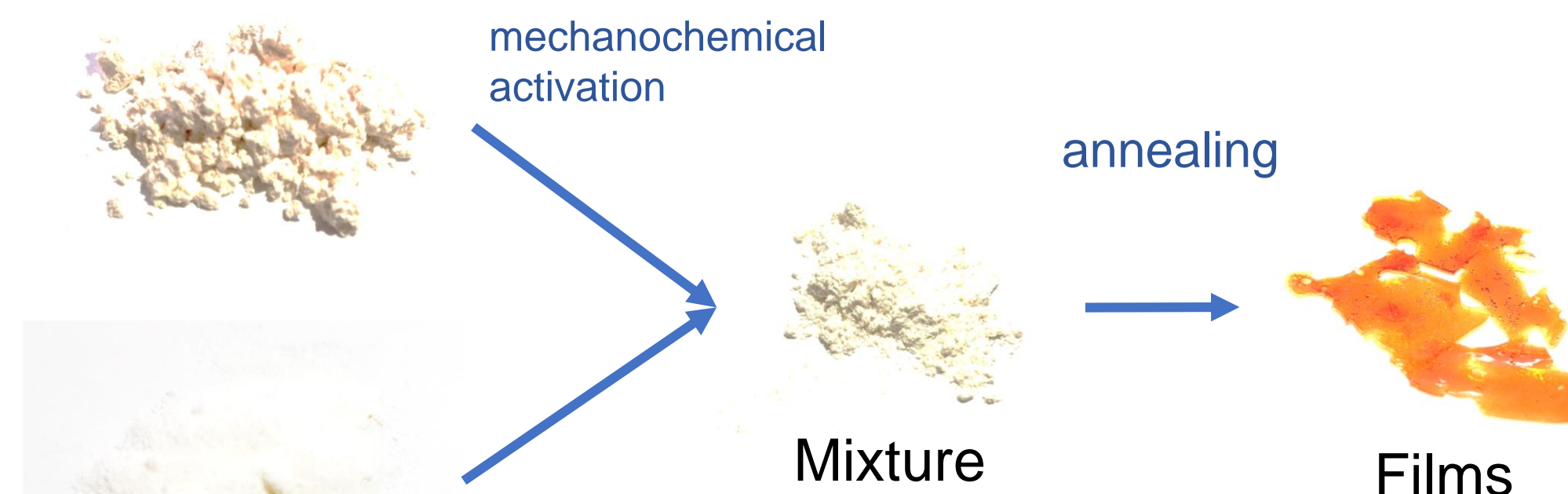
Substance of L-lysine
"AppliChem" Germany

Composition DHQ with L-lysine

Quantitative analysis

UV/vision- Spectrophotometry:
Spectrophotometr Cary 100
(Varian, Palo Alto, USA)

$$PMI = \frac{m_{total}}{m_{product}}$$



PMI=3.331

An innovative functional material based on DHQ with improved biopharmaceutical parameters has been obtained. The proposed method of supramolecular synthesis corresponds to the paradigm of the principles of «green» chemistry