

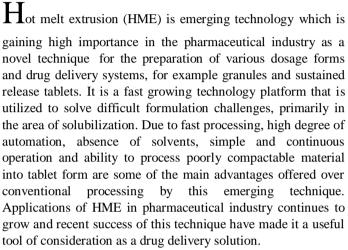
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# Hot melt extrusion An emerging drug delivery technology of 21<sup>st</sup> century

### Rashid Mahmood

SURGE Laboratories Private Limited, Pakistan.

#### Abstract



The use of hot-melt extrusion (HME) within the pharmaceutical industry is steadily increasing, due to its proven ability to efficiently manufacture novel products. . HME involves the application of heat, pressure and agitation through an extrusion channel to mix materials together, and subsequently forcing them out through a die. Twin-screw extruders are most popular in solid dosage form development as it imparts both dispersive and distributive mixing. It blends materials while also imparting high shear to break-up particles and disperse them. HME extrusion has been shown to molecularly disperse poorly soluble drugs in a polymer carrier, increasing dissolution rates and bioavailability

# Biography:

Rashid Mahmood has Master Degree in Analytical Chemistry and MS in Total Quality Management. He has 15 years of experience of Pharmaceutical Quality Operations and has participated in many international conferences as a keynote speaker. He has presented various talks in USA, Canada, UK & UAE on Cleaning Validation, cGMP Guidelines, Quality Risk Management, Role of Mass Spectrometry in Pharmaceuticals and on new Drug Delivery Systems.

Currently he is working as a General Manager Technical Operations for Surge Lab.(Manufacturer of Microencapsulated APIs, Liquid & Dry Powder Parentrals) which is the best export oriented company of Pakistan.





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