

# 3<sup>rd</sup> International Conference and Exhibition on **Biowaivers, Biologics & Biosimilars**

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## Extraction and characterization of gum from *Lepidium sativum* Linn. and *Cordia dichotoma* Linn. for its film forming properties and studies about release characteristic of these films

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*Lepidium sativum* and *Cordia dichotoma* gums were evaluated for film forming properties and its action on drug release characteristic. Diclofenac sodium was selected as model drug for the drug release characteristic. The XRD and DSC study gives the idea about best coating of film on microspheres. XRD study indicates the dispersion of drug after coating on microspheres. The effect of gum film on release profile of drug was calculated. Diclofenac released from gum coated microspheres was slow over 24 hrs. and dependent core: coat ratio of microspheres and release rate. Gum coated microspheres of diclofenac exhibit good sustained release characteristic and were found suitable for once a day sustained release product.

### Biography

Vaibhav M Darvhekar completed MPharm in Pharmacognosy in 2008 from North Maharashtra University, Jalgaon, Maharashtra and pursuing Phd from NIMS University, Jaipur. He has published 9 papers in international journal.

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