




SIMULATED MOVING BED CHROMATOGRAPHY (SMB)

KD Pharma is a contract manufacturer that develops products in the pharmaceutical space by employing state-of-the-art technology. Since its inception in 1988, KD Pharma has focused on utilizing cutting edge technologies to develop and manufacture exceptional quality APIs. These twin pillars of technology and quality are the foundation of the KD Pharma CDMO Division.

The Simulated Moving Bed (SMB) process is a highly engineered process for implementing chromatographic separations. It is used to separate one chemical compound or one class of chemical compounds from one or more other chemical compounds based on their geometry. SMB is particularly useful in the purification of APIs as it permits the efficient separation of optical isomers.



Defined by you.
Scale-up by us.™



SMB chromatography technology has several advantages over using simple (batch) HPLC chromatography:



Pilot SMB Unit

- Allows the production of large quantities of highly purified material on a continuous basis – higher throughput
- Lower amount of stationary phase required
- Decreased solvent usage
- Lower energy requirements

The CDMO division of KD Pharma possesses a world-class suite of SMB facilities from the laboratory, to the pilot plant scale, and full scale commercial units. These SMB facilities are also equipped with falling film evaporators and the associated feed and product collection tanks. These installed capabilities allow the efficient purification of your API throughout the entire product life cycle – from initial tox lots through to commercial manufacturing.

Let's discuss your specific manufacturing challenges today!
Contact us at: CDMO@kdpharmagroup.com

