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Formulator Challenge

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An alternative strategic for HPMC-AS which BASF offering?

Kollicoat MAE 100 55

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**Alternative for talc as an anti-tack agent in coating,
especially for enteric coating ?**

Kolliwax GMS II

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Solution for cross-linking in soft gelatine capsule

Kollisolv PEG 400 LA

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Fluid bed granulation requires more binder for granule formation

Kollidon 90 Evo is suitable for fluid bed granulation at low %.

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Hydrophilic lubricants and hydrophobic lubricants ?

Hydrophilic Lubricants: Kolliphor SLS Fine, Kolliphor P 188 micro Geismar

Hydrophobic or lipophilic Lubricants: Kolliwax SA, Kolliwax S Fine, Kolliwax HCO.

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BASF excipient used in ASD by dry mixing? Or solvent-free ASDs?

Soluplus

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BASF's product in Acryl-EZE ?

Kollicoat MAE 100 – 55 Fine

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BASF's product in Opadry QX ?

Kollicoat IR

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For sustained release coating, what is promoted as the pore-former

Kollicoat IR

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Sustained release tablets with release profile more like zero order

Kollicoat SR 30D

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Bubbling on tablet surface during coating due to the regular crospovidone

Kollidon CL-F and Kollidon CL-SF

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Poor flow of HME blend during feeding, high vapor build-up that requires a vacuum pump.

Kollidon VA 64

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The solution from BASF product for HPMC-based coating system ?

Kollicoat IR

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What waxy material can be used as a co-emulsifier in cream formulation?

Kolliwax GMS II

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Cell sensitive to Shear Stress during upstream manufacture

A : P188 is currently the only effective solution to protect cells from shear stress for large-scale manufacture.

Mammalian cells, insect cells and plant cells are sensitive to shear stress, which widely observed in bioreactor (the container to support robust cell growth). Shear stress Can be caused by agitation, bubble burst and foaming, *et al.*

e.g. the industry widely used CHO (for most of antibodies production), and HEK293 (For gene therapy and protein production.)

Typically, P188 concentration is 1-2.5 g/L in the culture media for fed-batch.

If you visit Bio customers, you will find most of them need P188, especially for antibody, virus drug production in large scale manufacture.

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Quick disintegration in large tablets?

Kollidon CL

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Formulating Cost effective ODTs?

Kollidon CL-F and Kollidon CL-SF combination along with spray dried mannitol (Pearlitol SD 200)

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Processing of potent compounds

Use of co-processed excipients like Kollitab DC 87L or Ludipress to minimize handling steps

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Long coating times for tablets

Kollicoat IR

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Formulating SR tablets by direct compression

Kollidon SR

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Formulating creams with one pot process?

Co-processed topical ingredients such as Kolliphor CSS and Kolliphor CSL

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Lack of soothing feel in the cream formulations

Kollicream grades such as Kollicream 3C, IPM, OA

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Lack of binding in direct compression process

Kollidon VA 64 fine

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Solubilizer for direct compression tablet formulation

Kolliphor P 188 micro, Kolliphor P 407 micro and Kolliphor SLS fine

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In terms of ODTs formulation, the incorporation of disintegrants leads to the roughening of the tablet surface.

Fine particle sizes of materials like CL-F and CL-SF maintain disintegration functionality while achieving stabilization of the tablet surface.

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Coating process, HPMC does not work as oxygen permeation inhibitors.

Compared to HPMC, Kollicoat IR demonstrates superior oxygen permeation inhibiting effects.

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In the sustained-release coating, curing is a challenging parameter to establish during scaling up.

With Kollicoat SR 30D, curing is not required.

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Desire to endow tablets with a sustained-release through a simple manufacturing process.

Kollidon SR is capable of providing a pH-independent sustained-release feature. With a particle size of 100µm and good flowability, it can be utilized direct compression process.

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Taste Masking

Kollicoat smartseal 30 D, Kollicoat MAE grades

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Poor compressibility of materials(TCM)

Kollidon VA 64 fine , Kollicoat IR

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Hydrophobic APIs solubility and bioavailability enhancement

Soluplus, Kolliphor grades

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Reducing bile acid impacts on individual differences bioavailability across different populations

Kolliphor SLS fine

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Increased dispersion of vaccine aluminum adjuvant and improvement of vaccine potency

Kolliphor HS 15

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Load proteins onto the surface of the chip, when the medical device kit detection, wash off the membrane rapidly and exposes the proteins for test

Kollicoat IR

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Surfactants for injection to replace PS 80 to reduce hemolysis and histamine allergy

Kolliphor HS 15

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Safety surfactants for paediatric medicine

Kolliphor HS 15

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