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Applications of Surfactants in Pharmaceutical Formulation/Drug Product Development

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Message from the Guest Editors

Dear Colleagues,

In pharmaceutical formulation/drug product development, surfactants play a crucial role as excipients. The application of surfactants is found to be ubiquitous in biologic products. Several biologics such as vaccines, monoclonal antibodies, mRNA therapeutics, and gene-therapy-related products show enhanced stability in the presence of surfactants. Furthermore, formulations such as amorphous solid dispersions (ASDs) that contain surfactants have an easier processability in the case of the hot-melt extrusion process. The limitations of surfactants, such as their peroxide stability issues (biologics) and the recrystallization (ASDs) of formulations, need to be thoroughly investigated. Recent advances in this area of research have shown the potential use of surfactants in delivery to stabilize a variety of biopharmaceuticals. In this Special Issue of *Pharmaceuticals*, the focus will be on surfactant applications for biologics, amorphous solid dispersions, suspensions, emulsions, microspheres, and other pharmaceutical applications.



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Special Issue



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