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Comparisson between two batches of Acetylsalycilic acid using SeDeM diagram to compare the suitability for direct compression

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SeDeM Diagram System is a new Galenic method for application in tablet-preformulation and formulation studies. It provides information about the suitability of active ingredients and excipients in powder for direct compression. Moreover, this useful tool is also apt for verification of the reproducibility of manufacturing standards between batches of the same powdered raw material (API or excipient). Indeed, superposing the SeDeM Diagrams of each batch, the degree of similarity or difference between the same API on the basis of the established twelve physic parameters can determine its appropriateness for compression. It is widely known that one substance, with exactly the same chemical structure, can vary his physical characteristics depending on the provider and the trademark. Consequently, there have been in many occasions unexpected problems in manufacturing process of drug products. Two batches from the same API (Aspirine) and provider are compared in order to demonstrate the differences between different batches of the same provider of the same chemical product. The two SeDeM Diagrams are represented and compared, allowing us to study the differences between two batches easily. Also, it allows to know quickly if the batches are good enough for direct compression, and to correct the powder properties that need to be improved to facilitate the formulation of the end product for direct compression of this API.

Biography

Marc Suñé Pou has completed degree in Pharmacy with a special award at the age of 22 years from University of Barcelona (UB). Currently, he has started his PhD studies with an investigation scholarship given by UB. He is working and collaborating in the research group "Transport systems for delivery drugs" in the SDM (Service of Development of Medicines) and with the research group "nRNA formation and function" in the Institute of Parasitology and Biomedicine "Lopez-Neyra" (IPBLN). He has published 4 posters in reputed congresses, one chapter in a book of pharmaceutical technology and he has participated in teaching tasks along the degree.

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