



# **Impact of Variability of Excipient Properties on Drug Product Manufacturing and Performance**

# A brief, selective history of the focus on excipient quality and functionality...

1974 – OTA's ***Drug Bioequivalence Study Report***

1974 – ***Katalog Pharmazeutische Hilfsstoffe*** – published under the collaborative auspices of Hoffmann-La Roche, Ciba-Geigy, and Sandoz

ca. 1976 – ***Handbook of Pharmaceutical Excipients*** – Academy of Pharmaceutical Sciences of APhA; Pharmaceutical Society of Great Britain — **1<sup>st</sup> edition, 1986**

*The **HPE** comprises practical compilations of technical data, test methods, and relevant literature...*

# Contemporaneous developments...

- 1976 – *Pharmaceutical Technology*
- 1987 – Pharmacopeial Discussion Group (**PDG**)  
[USP, EP, JP]
- 1991 – International Pharmaceutical Excipients Council of the Americas (**IPEC**)
- 1992 – Land-o-Lakes Conference on “Pharmaceutical Excipients: Characterization, Functionality, and Harmonization”

**Nonetheless, limited information has been available up until now, **in the public domain**, regarding objectionable and unexpected variations in drug product manufacturing and performance that can be attributed to variations in excipient properties.**

**The intended function of the excipient, the nature and robustness of the formulation, the unit operations comprising the product manufacturing process, can all potentially be affected by the excipient properties.**

## **Primary Objective**

**To survey the pharmaceutical industry and establish the collective knowledge of excipients known to have caused problems in the course of drug product manufacturing or in finished drug product quality issues...**

## Secondary Objective

**To enable generalizations to be made regarding source-to-source, grade-to-grade, and lot-to-lot critical excipient functionality-related properties that relate to drug product manufacturing and/or performance**

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