Pharmaceutical Excipients (PE)

= compounds contained in drug preparations, which are not holders of the activity

necessary for formulation (creation; making-up) of the drug form (DF); they can influence bioavailability of active compounds (ingredients)
technical excipients – used in manufacturing of DF, not present in final preparation (typically solvents which are evaporated druring the manufacturing)

•pharmacopoeas: requirements to quality including purity of PE are the same as for active ingredients; EP: common article *Corpora ad usum pharmaceuticum*

•old definition of PhBs IV (valid 1987 – 1996): PE are chemically homogenous or non-homogenous compounds or their mixtures needed for preparation of drug preparations, which are either their part (PE in narrower meaning), or they are not contained in a final preparation (technical PE).

Classification of PE after their usage

- 1. Constitutive PE form the "habitus" of DF
- 2. Stabilizing PE
- 2.1 Stabilizers of aggregate properties of dispersions tensides, compounds increasing the viscosity
- 2.2 Stabilizers of compound composition of DP
- 2.2.1 Antioxidants
- 2.2.2 Antimikrobial and antifungal preservatives
- 3. Compounds correcting organoleptic properties of DP
- 3.1 Taste corrigents
- 3.2 Odour corrigents
- 3.3 Colour corrigents dyes
- 4. Compounds affecting bioavailability of active ingredients enhancers of permeation through organism barriers
- 5. Technical PE

Classification of PE after "quantifiability" of their effect

•compounds without own quantitatively expressible effect

- constitutive PE
- •compounds with own quantifiable effect:
- ★ antimicrobial and antifungal preservatives (MIC)
- * antioxidants (total antioxidant capacity etc.)
- ★ taste corrigents sweeteners (sweetness compared with sucrose)
- ★ tensides (HLB)
- ★ enhancers of permeation through barriers enhancement ratio etc.
- ★ dyes objective expressing of the colour in systems of coordinates (eg. CIELAB), or

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othervise by means of VIS spectra (\lambda_{_{\text{max}}},\,\epsilon)
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☆etc.