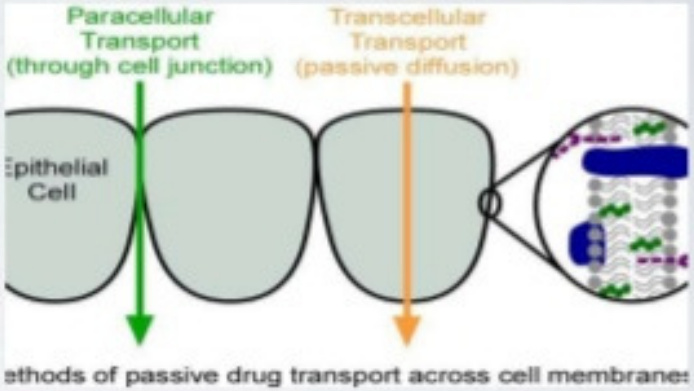
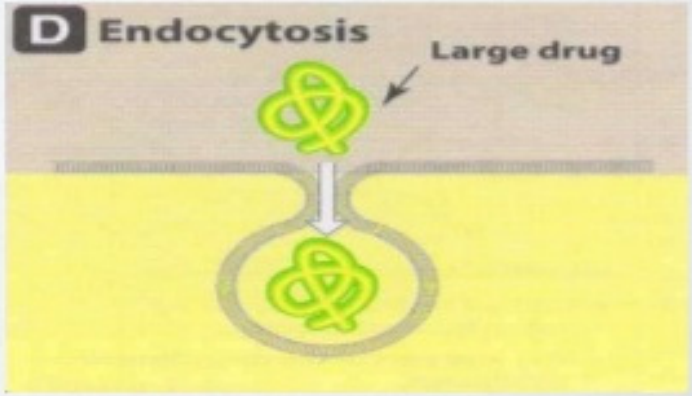
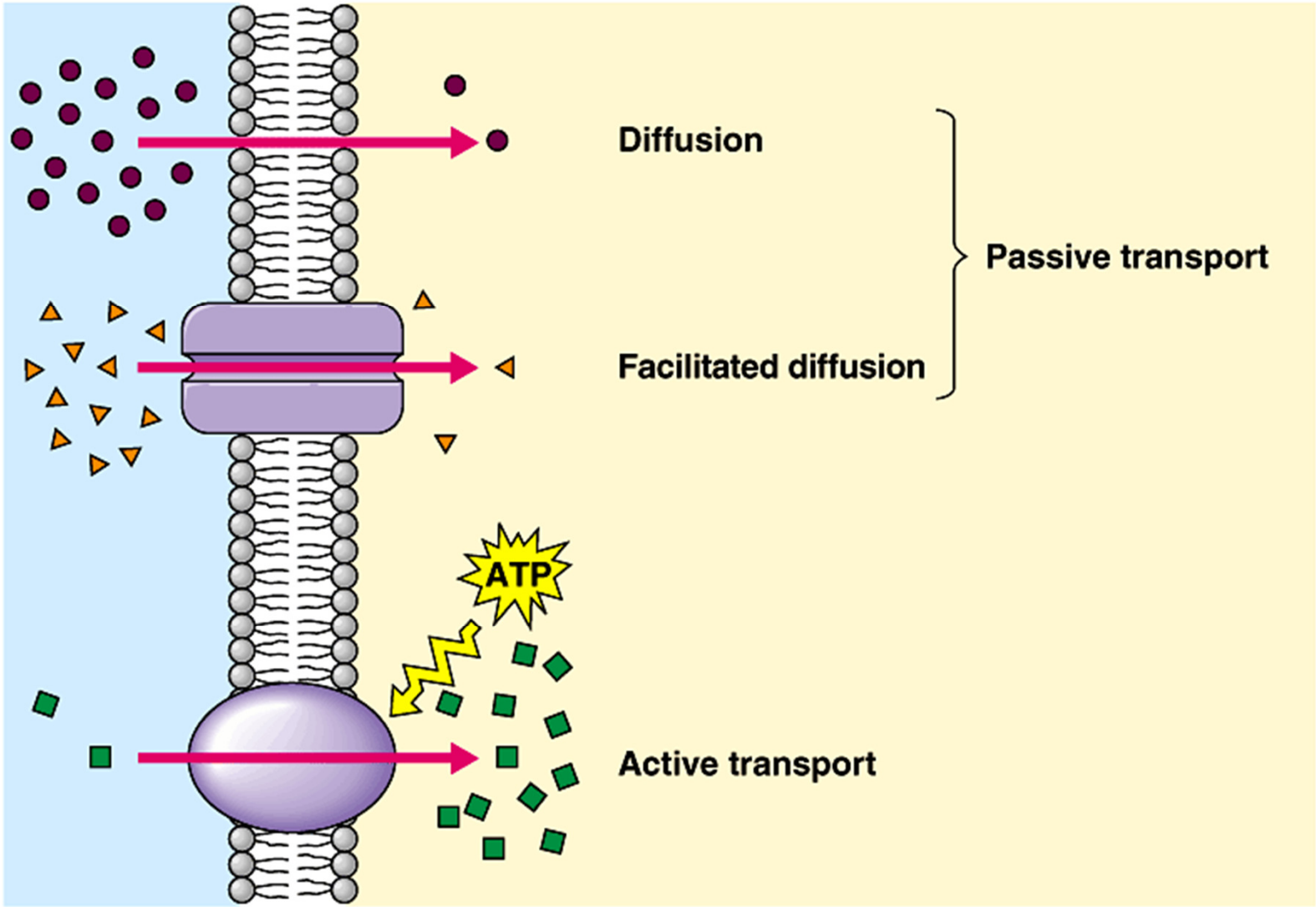
Lægemidlers passage over membraner

MECHANISMS IN DRUG TRANSPORT

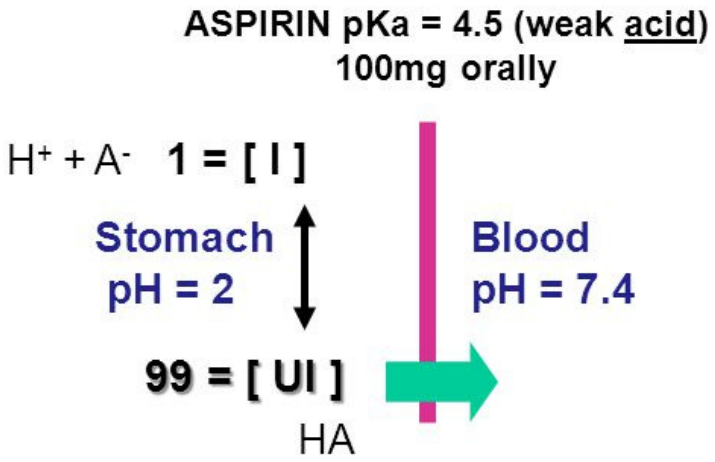
- Transcellular transport
- Paracellular transport
- Vesicular transport



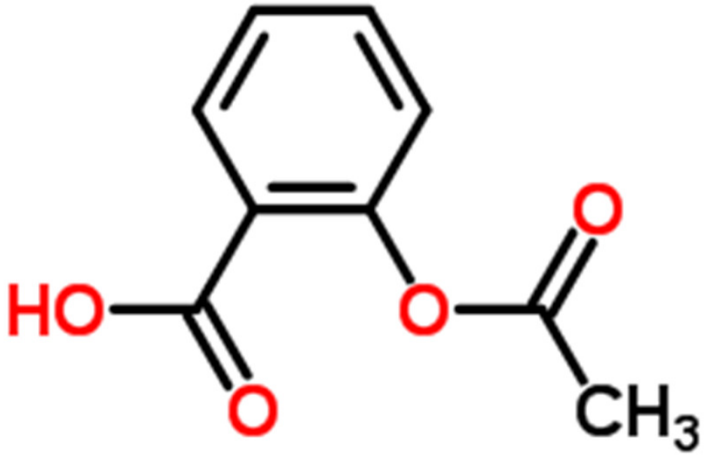




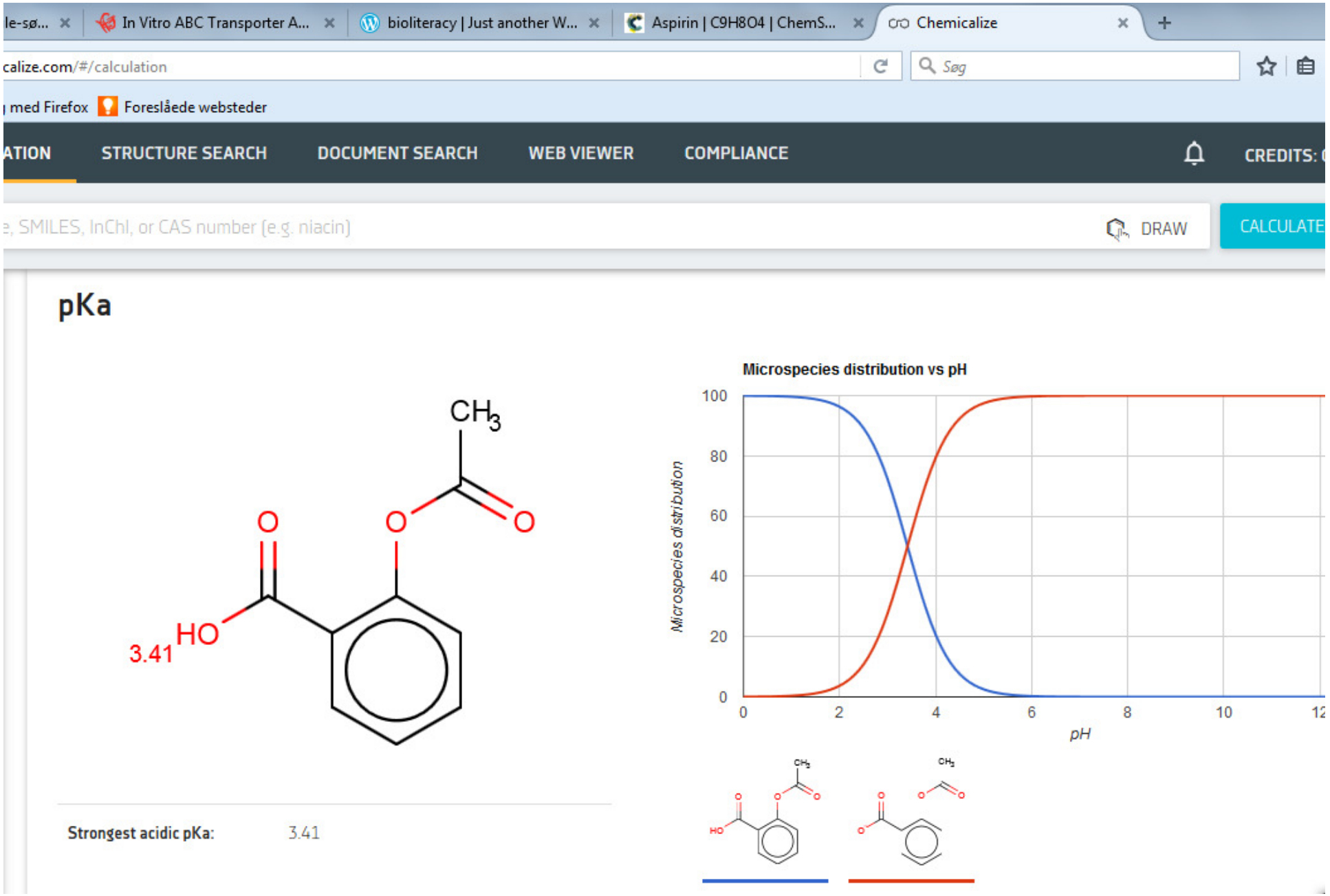
Mechanisms of Drug Transport



Acetylsalicylsyre (Asperin)

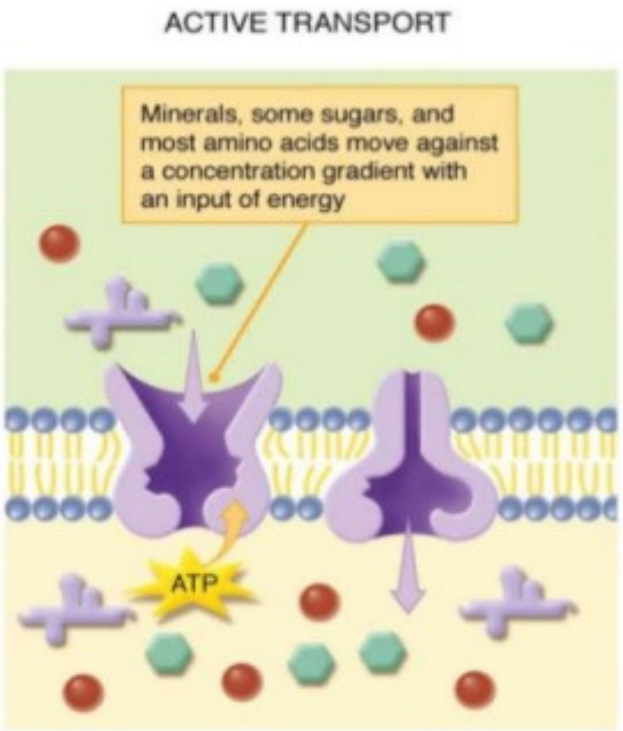


Chemspider/Chemicalize



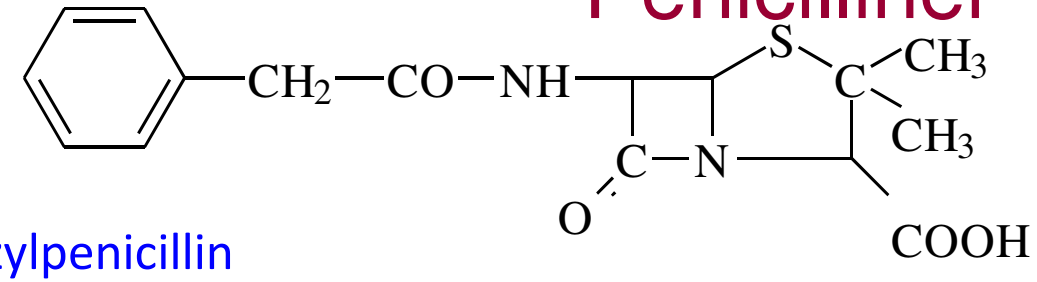
Chemspider/Chemicalize

ACTIVE TRANSPORT

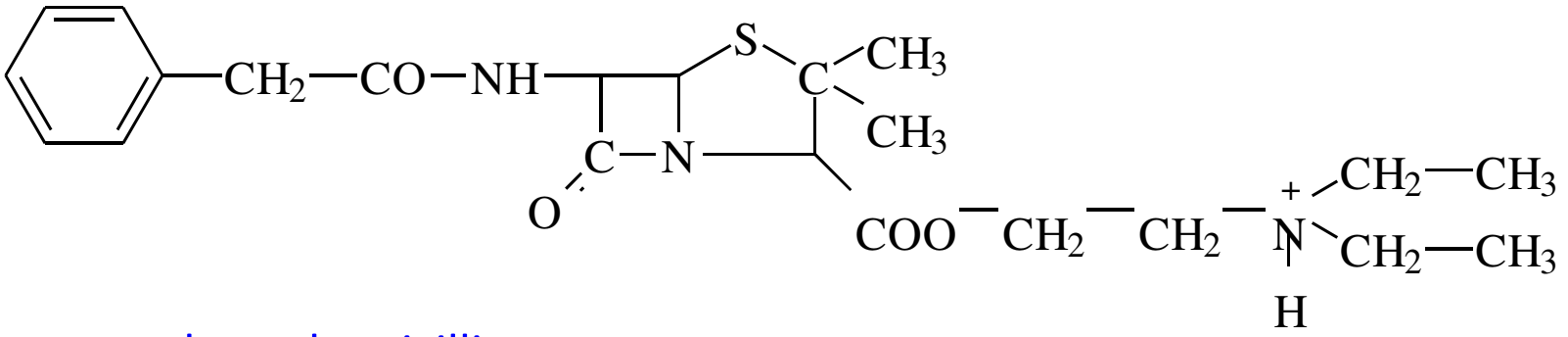


- Requires energy, which is provided by hydrolysis of ATP for transportation.
- More commonly, metabolic energy is provided by the active transport of Na+, or is dependent on the electrochemical gradient produced by the sodium pump**, Na+/K+ ATPase** (secondary active transport).

Penicilliner



benzylpenicillin
(syre)



benzylpenicillin
(syre)

diethylaminoethanol
(basisk alkohol)

svagt basisk ester

Udskillelse af Pen G Procain og Penetamat i mælk efter IM administration af 10.000 i.e./kg IM

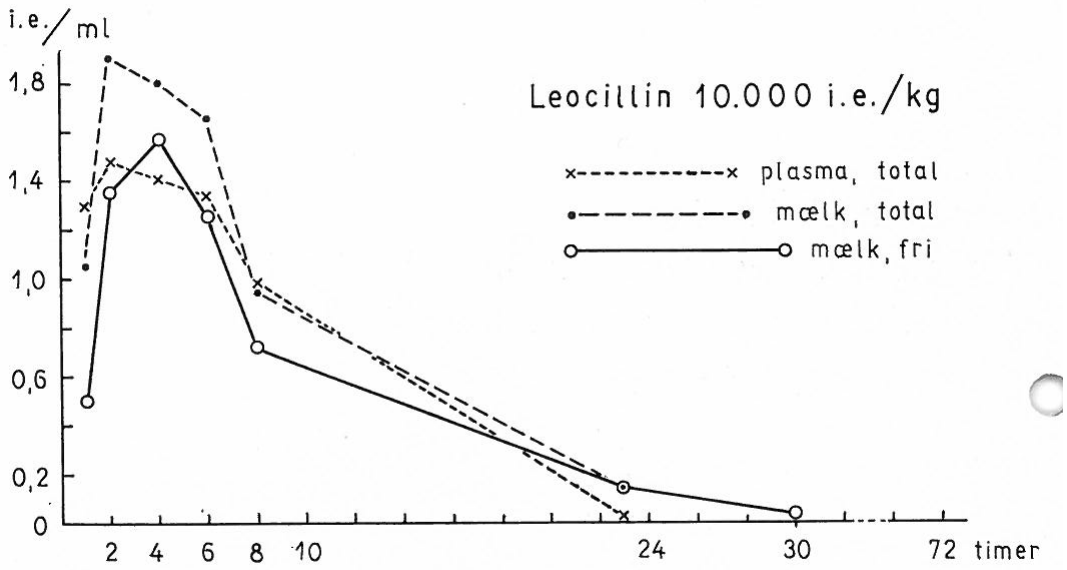


Fig. 1. Koncentrationen af benzylpenicillin i mælk o——o, og af benzylpenicillin + penicillinester i mælk ●.....● og i plasma ×.....× efter injektion af

Mammær ekskretion af penicillin

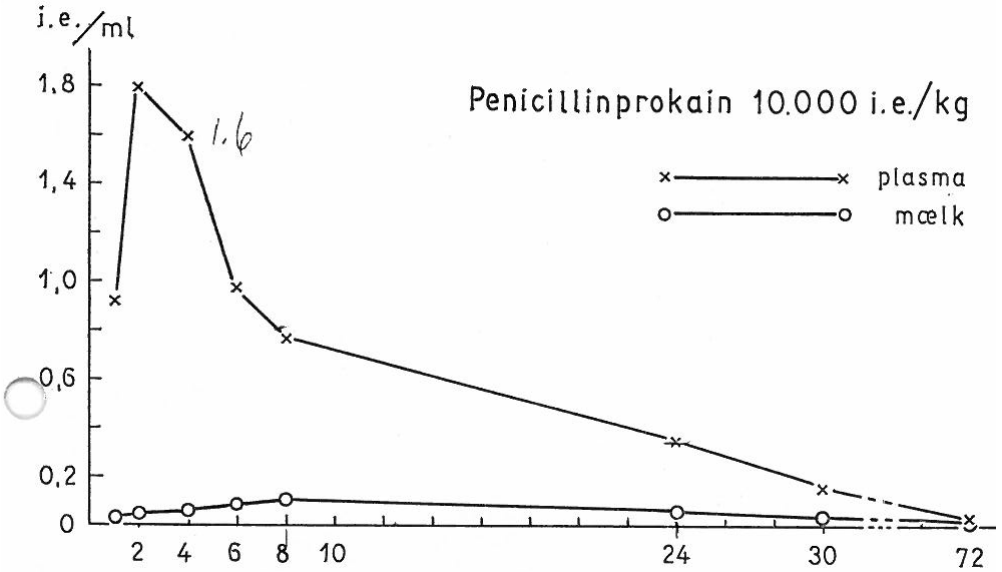


Fig. 2. Koncentrationen af benzylpenicillin i mælk o——o og i plasma ×— efter injektion af penicillinprocain suspenderet i vand.