

## ABSTRACT

**Title:** TRANSDERMAL IN VITRO DELIVERY OF 7-METHOXYACRINE. VI

**Name:** LÍPOVÁ Markéta

There's an actual summary of the research of transdermal delivery drugs on the field of neurodegenerative diseases with the focus on the Parkinson's and Alzheimer's disease in the theoretical part of this labour

The experimental part contains results of in vitro transdermal delivery of 7-methoxytacrine through the pig full-thickness skin. There were used two acceptor media and observed their influence on the drug delivery.

The drug delivery of 7-methoxytacrine lactate from the aqueous solution and the aqueous dispersion of the viscosifiant Sepigel was observed, but there were only very low values of fluxes. The drug delivery of 7-methoxytacrine base was evaluated from the donor phase of isopropylmyristate with or without the addition of transcarbam 12 like an accelerant and then with the addition of polyglycerol-4-12. The microemulsion with Cremophor-EL like an amulgator was observed a well, but the fluxes were very low. The level of the pig skin hydration and it's influence on the speed of the drug delivery was observed too.