

# Transdermal and transmucosal kinetics using FDC

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## Organisation

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**Geographical Area** Flemish Region

## SCOPE OF THE METHOD

<b>The Method relates to</b>	Human health
<b>The Method is situated in</b>	Basic Research
<b>Type of method</b>	In vitro - Ex vivo
<b>Specify the type of cells/tissues/organs</b>	Skin

## DESCRIPTION

### Method keywords

skin absorption

transport

kinetics

LC-MS

## Scientific area keywords

pharmacokinetics

toxicokinetics

toxicity

## Method description

Transport kinetics across the skin and/or mucosa is investigated using Franz diffusion cells and LC-UV/MS detection of the investigated molecule in the receptor compartment.

## Lab equipment

Franz diffusion cell system ;

LC-UV/MS.

## Method status

Internally validated

Published in peer reviewed journal

## PROS, CONS & FUTURE POTENTIAL

### Advantages

No *in vitro* cell line is used but real *ex vivo* skin or mucosa.

## REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

### References

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Veryser L, et al. (2014). Quantitative transdermal behavior of pellitorine from *Anacyclus pyrethrum* extract. *Phytomedicine*. 21(14):1801-7.

Veryser L, et al. (2016). Mucosal and blood-brain barrier transport kinetics of the plant N-alkylamide spilanthol using *in vitro* and *in vivo* models. *BMC Complement*

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