

Supplementary Materials: Physicochemical Properties and Transdermal Absorption of a Flurbiprofen and Lidocaine Complex in the Non-Crystalline Form

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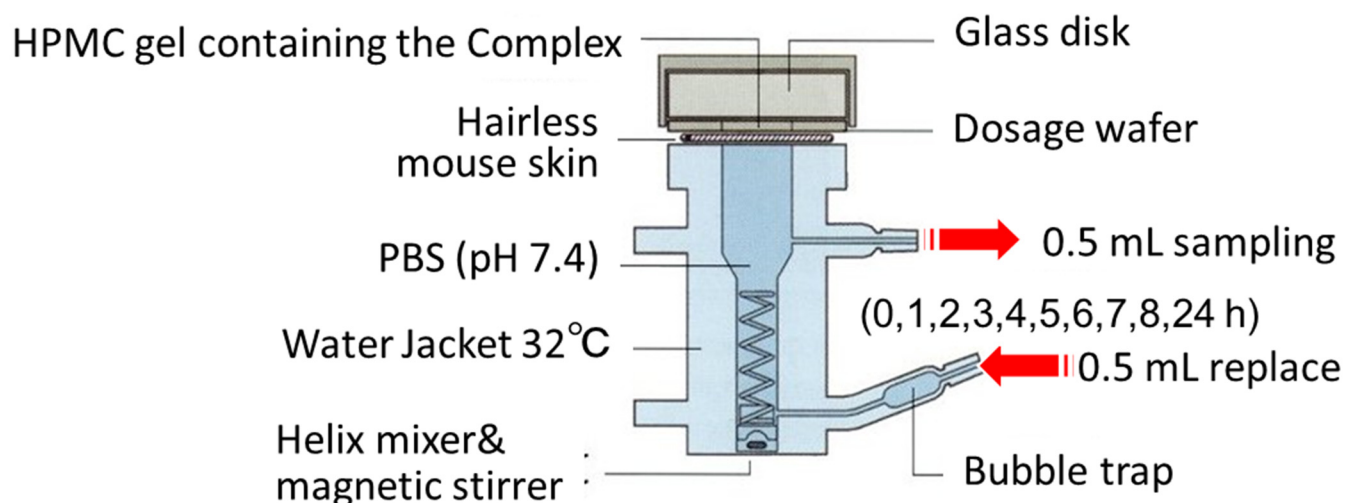


Figure S1. Diagrammatic representation of a Franz diffusion cell used in this study.



Figure S2. Appearance of various NSAIDs and LDC complex.

Table S1. Flux and Lag time derived from cumulative amount and time curve of 2% HPMC gel.

	Flux ($\mu\text{g}/\text{cm}^2/\text{h}$)	Lag time (h)	Cumulative amount permeated ($\mu\text{g}/\text{cm}^2$)
Lidocaine (LDC-FLU)	18.40 \pm 2.12	0.84 \pm 0.36	307.20 \pm 98.40
Flurbiprofen (LDC-FLU)	30.10 \pm 0.63	1.75 \pm 0.15	572.60 \pm 146.22
Lidocaine alone	36.20 \pm 2.26	0.47 \pm 0.25	387.63 \pm 71.12
Flurbiprofen alone	7.98 \pm 1.99	1.11 \pm 0.37	172.61 \pm 57.90

Table S2. Flux and Lag time derived from cumulative amount and time curve of white petrolatum.

	Flux ($\mu\text{g}/\text{cm}^2/\text{h}$)	Lag time (h)	Cumulative amount permeated ($\mu\text{g}/\text{cm}^2$)
Lidocaine (LDC-FLU)	2.49 \pm 0.58	0.87 \pm 0.19	32.24 \pm 12.21
Flurbiprofen (LDC-FLU)	4.32 \pm 0.22	0.85 \pm 0.34	54.83 \pm 2.36
Lidocaine alone	4.46 \pm 0.59	0.36 \pm 0.58	65.02 \pm 10.63
Flurbiprofen alone	2.16 \pm 0.78	0.98 \pm 0.16	25.31 \pm 19.82