

HYDRO-TOPS® PENETRATION OF HYDROCORTISONE

Encapsulation: 0.5 % ³H-Hydrocortisone **Time:** 24 hours

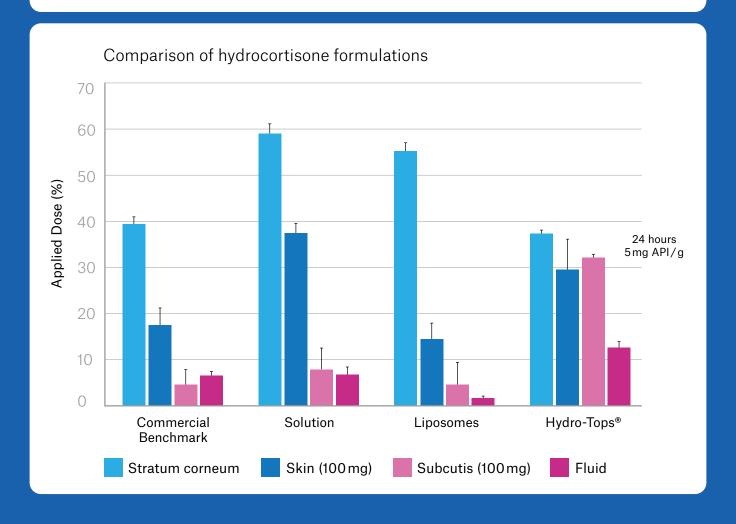
Application: 10 μl/cm² human skin **Determination:** Radioactivity

Franz Cell testing & penetration of IMWITOR® 375 based W/O/W nanoemulsion

CONCLUSION:

Highly competitive performance towards overcoming stratum corneum. Delivery and distribution of high amount of active into deep skin layers.

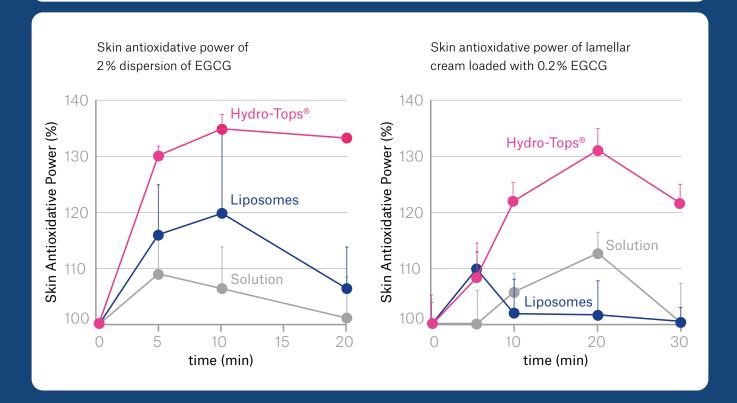
Highly efficient vehicle for deep penetration by dermal route!



CASE STUDY:



HYDRO-TOPS® ANTIOXIDANT FORMULATION LOADED INTO LAMELLAR CREAM



2% dispersion and 0.2% dispersion in lamellar cream of Epigallocatechine-gallate (EGCG) based on IMWITOR® 375 have been studied for their bioavailability

- High and stable encapsulation efficacy comparable with liposomes
- Hydro-Tops® encapsulated active shows highest antioxidative effect in skin measured by ESR
- After 20 minutes radical scavenging effect of Hydro-Tops® encapsulated active found to be higher by factor of more than 2x
- Formulated into lamellar cream Hydro-Tops® show high antioxidative activity