

Pentravan®

Transdermal base



Penetration Enhancing Vanishing Cream

Individualised, patient friendly transdermal creams are easily prepared in three steps with Pentravan®. Pentravan® is an oil-in-water emulsion base that uses penetration enhancing ingredients to ensure effective and reproducible transdermal drug delivery. Pentravan® is a fragrance-free vanishing cream, providing an elegant skin feel.

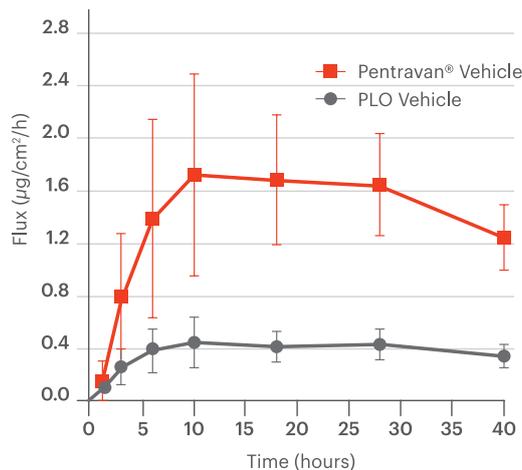
Benefits Of Pentravan®

- Better skin feel and quicker absorption for enhanced patient satisfaction and compliance.
- Proven effectiveness* and reproducibility of transdermal drug delivery.
- Easy preparation. Pentravan® is a ready-to-use base, allowing a simple three step preparation of transdermal creams. Less mixing and less preparation time.
- Minimal odor. Fragrance-free formula.
- A noninvasive, patient-friendly alternative for other routes of administration.
- Versatile. Pentravan® can be used with a broad variety of APIs.

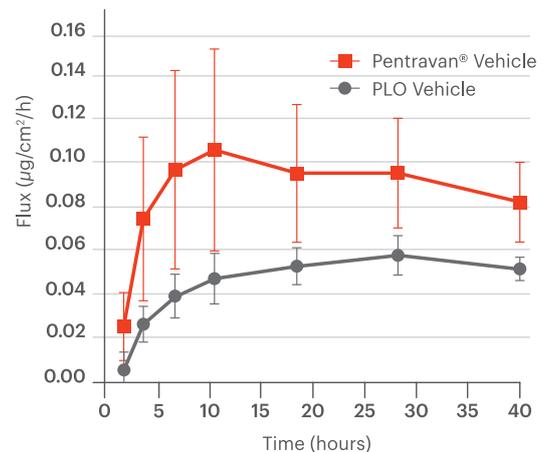
An IJPC published in vitro absorption study* with different APIs shows that Pentravan® delivers more drug in a shorter amount of time than PLO.

Comparing permeation of drugs in Pentravan® vs. PLO gel:

- The API in Pentravan® reached peak permeation faster.
- The amount of drug in Pentravan® that is absorbed is pharmacologically higher.
- Ketoprofen in Pentravan® shows a 3.8 higher absorption than in PLO.
- Testosterone in Pentravan® shows a 1.7 higher absorption than in PLO.



Meanflux (mcg/cm²/hr) results: Ketoprofen. (Mean ± SEM).



Meanflux (µg/cm²/h) results: Testosterone. (Mean ± SEM).

Method of Preparation

1. Calculate, weigh and measure the APIs.
2. Prepare API(s) for inclusion into Pentravan®. Material(s) should be in the form of a smooth, non-gritty, homogenous paste before addition to Pentravan®. Reduce all powders to uniform, fine consistency with a ceramic mortar and pestle, then triturate with a suitable solvent (e.g. water) to make a non-gritty, homogenous paste.
3. Combine the API(s) and excipients with Pentravan® using geometric dilution techniques.

With Pentravan® Fagron provides a perfectly unique and innovative vehicle in the fundamental compounding service.

Visit www.fagron.com to find out more about Pentravan®, transdermal drug delivery and the other innovative concepts and products of Fagron in your country.

* Lehman PA, Raney SG. In vitro percutaneous absorption of ketoprofen and testosterone: comparison of pluronic lecithin organogel vs. Pentravan® cream. International journal of pharmaceutical compounding. 2012; 16(43): p. 248-252. Visit our website to download the article.