



# Transdermal Drug Delivery Systems:



## A Strategic Overview



## Introduction

**At Amarin,** we specialize in transdermal drug delivery systems (TDS), offering over 30 years of experience in pharmaceutical development. Our team partners with global pharmaceutical companies to design, develop, and manufacture advanced TDS products tailored to their unique challenges.



## OUR PURPOSE

Committed to provide more people with access to a better quality of life, through high-performance pharmaceutical products that we develop in Latin America and for the world.

## OUR VALUES



### Reliability

We build long-term, transparent relationships with our partners and clients. Trust and clarity are at the heart of everything we do.



### Flexibility

As a niche player, we adapt to our partners' needs, offering tailor-made solutions that support project development at every stage.



### Passion

Our passion drives our work. It is the energy that on daily basis fuels innovation, teamwork, and the pursuit of better solutions.



### Commitment

We honor our word. With responsibility and dedication, we stay true to our goals and clients, proven by our history and trusted partnerships



## Why Transdermal?

**Transdermal drug delivery** offers a controlled release of medications through the skin, avoiding first-pass metabolism and improving patient compliance. It is ideal for APIs requiring steady plasma levels or those with gastrointestinal absorption limitations.



**At Amarin,** we focus on the development and manufacture of patent-protected innovative formulations of well-known drugs and generic versions of transdermal and topical brand products.

## OUR PATCHES ARE OF TYPE:

- ✓ **Monolayer drug-in-adhesive.**
- ✓ **Bilayer drug-in-adhesive.**
- ✓ **Matrix system for delivery of liquid drugs.**



**Our patches** developed and manufactured by our company consist of thin units, which contain the active ingredient in a matrix composed by pressure-sensitive adhesives and excipients such as permeation enhancers, co-solvents and antioxidants.

**Transdermal delivery systems (TDS)** provide therapy for periods between one and seven days. The increase in the interval between applications favours patient compliance and, in certain cases, optimizes caregivers work.

**Another advantage** of transdermal administration of drugs is the possibility of reaching sustained and controllable plasma levels of the drug, avoiding the characteristic peaks and valleys of the oral or injectable routes of administration, thus decreasing the risk of potential side effects or lack of activity.

**We have also developed** an enhancer technology applied on semi-solid dosage forms. The drug permeation using this technology allows us to reach therapeutic levels of drugs in the bloodstream.



## What Makes a Molecule

Transdermal-Ready?

### TRANSDERMAL FEASIBILITY DEPENDS ON MULTIPLE FACTORS:

- ✓ **Molecular weight**
- ✓ **Partition coefficient**
- ✓ **Therapeutic dose requirement**
- ✓ **Skin permeability**

We support clients through early screening and feasibility studies to determine the transdermal viability of their APIs.



## Amarin's Development Process

Our end-to-end model includes:

- 1 Feasibility studies**
- 2 Formulation development**
- 3 Analytical method development**
- 4 GMP manufacturing**
- 5 Regulatory documentation**
- 6 Clinical coordination**

We focus on agility, technical rigor,  
and transparency across all stages  
of development.



## Partnership Models

**Out-licensing:** Access our portfolio of fully developed transdermal and topical products available for licensing in select markets. These ready-to-commercialize solutions shorten your time to market and reduce development risk.

**Co-Development:** Partner with us to co-develop innovative drug delivery solutions. We collaborate on strategic projects where intellectual property (IP), investment, and commercialization responsibilities are shared to maximize value and market success.

**Development under contract:** Bring your own active pharmaceutical ingredient (API) and we'll handle the rest. From feasibility and formulation to scale-up and manufacturing, our end-to-end service transforms your molecule into a viable transdermal system.



## Why Choose Amarin?

- ✓ **30+ years in TDS innovation**
- ✓ **Agile team and direct access to decision-makers**
- ✓ **Dedicated GMP facility**
- ✓ **Proven regulatory and clinical support**
- ✓ **Experience with complex and custom formulations**
- ✓ **Strong track record of global partnerships**



## The Human Factor

Our production team is trained continuously to uphold the highest standards of Good Manufacturing Practices (GMP).



Every action, every detail,  
every result — driven by professionalism  
and precision.



## Frequently Asked Questions

### **Q: What kind of molecules are suitable for transdermal delivery?**

A: Typically, those with small molecular size, moderate lipophilicity, and low daily dose.



### **Q: Can Amarin help evaluate my molecule's transdermal feasibility?**

A: Yes. We conduct tailored feasibility studies to assess permeation, stability, and formulation options.




### **Q: Do you manufacture commercial batches?**

A: Yes. Our plant is GMP-certified and serves both domestic and international markets.


## Contact Us

Want to explore transdermal

drug delivery options?

 **Contact:** [info@amarintech.com.ar](mailto:info@amarintech.com.ar)

 **Website:** [www.amarintech.com](http://www.amarintech.com)

 Based in **Argentina**, serving global partners

