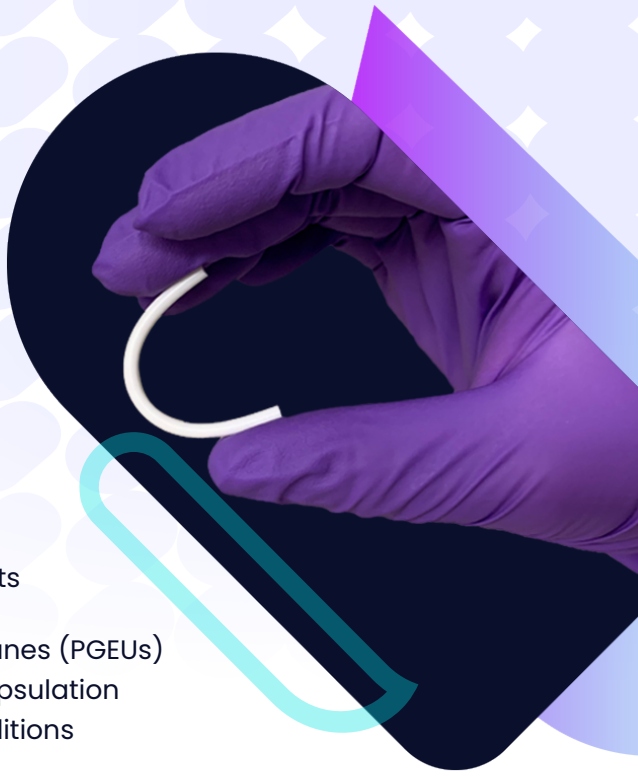
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DATA SHEET

Hydralese®Rx

# Drug Delivery Platform



Secant Group's Hydralese®**Rx** polymer platform can be leveraged to enable innovative custom-developed solutions for complex long-acting drug delivery challenges. Our library of polymers provides the versatility needed to bring the right solution to market.

## Benefits of the Hydralese®**Rx** Polymer Library:

- Tunable release kinetics and degradation profiles for 3-12+ months of release
- Can deliver small molecule active pharmaceutical ingredients and biologics
- Bioresorbable and biodegradable poly(glycerol ester) urethanes (PGEUs)
- Biocompatible with no residual inflammation or fibrous encapsulation
- Wide range of form factors manufacturable at ambient conditions
- Patent-protected platform for drug lifecycle extensions
- High drug loading (> 60% w/w)
- Zero-order release kinetics
- Minimal pH change during degradation
- Targeted release profile optimization through Digital Twin technology

## Hydralese®**Rx** provides a range of form factors addressing multiple routes of administration:

- Injectable solid implants
- Injectable microspheres
- Coatings
- Closed-geometry solid implants
- Other device concepts
- Foams



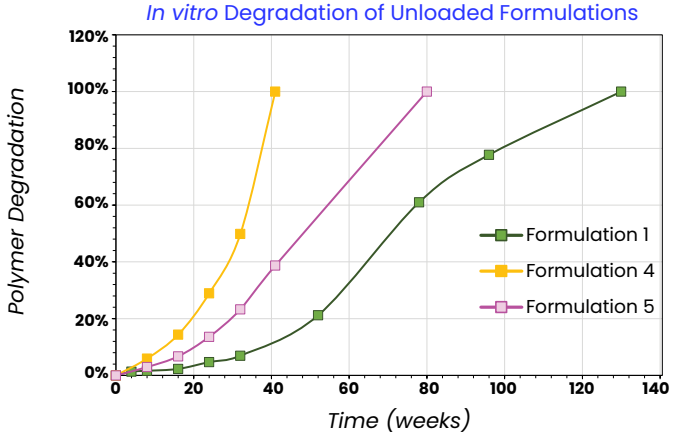
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Hydralese®**Rx Resorbable Polymer Platform For Drug Delivery Innovation**

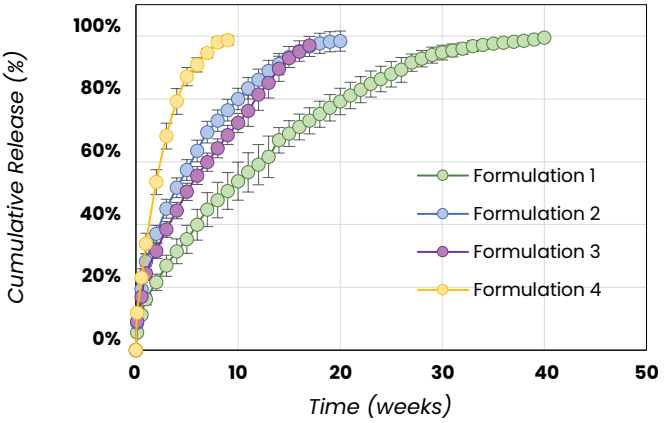
## *In vitro* Release of 2′-deoxyadenosine with Hydralese®**Rx**

- Release can be tuned between 10-40 weeks for a water-soluble small molecule API
- *In vitro* degradation can be tuned between 3-12+ months
- Formulations can be customized based on the API characteristics

*In vitro* Degradation of Unloaded Formulations

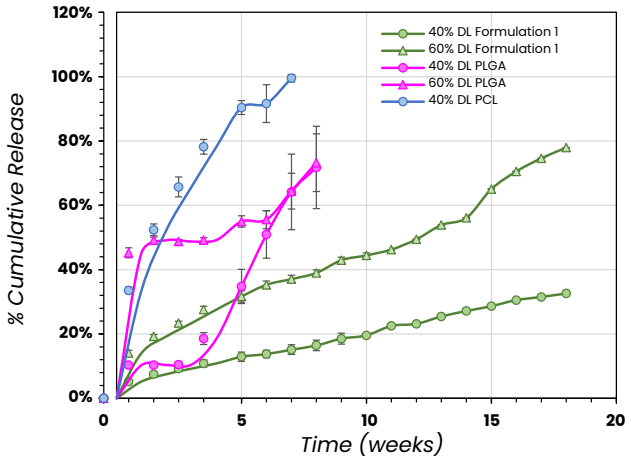



Cumulative Release from 40% Loaded Formulations




## *In vitro* Release Comparison of PLGA, PCL, and Hydralese®**Rx**

- Hydralese®**Rx** polymers show linear release with minimal burst as compared to PLGA and PCL






## Ready to Spark Your Next Drug Delivery Innovation?

Our team can help you solve your drug delivery challenges with custom polymer solutions.

- Decades of polymer expertise
- Proprietary patent-protected, biodegradable polymer platforms
- In-house analytical testing and method validation
- ISO-certified Class 7 & 8 cleanrooms

Learn more at
**www.solesis.com/pharma/drug-delivery/**

## Hydralese®**Rx**
## Engineered for Performance and Possibility

Hydralese®**Rx** is designed to meet your target product profile for drug delivery optimization. With a foundation in tunable polymer chemistry, Hydralese®**Rx** is ready to scale with your innovation.

**Scan for details.**

Contact us at **www.solesis.com/contact/**