



Hydralese® Drug Delivery Platform

Secant Group's Hydralese® 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.

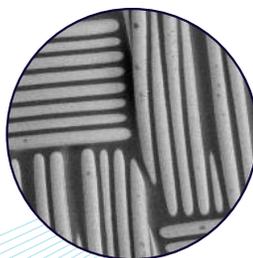
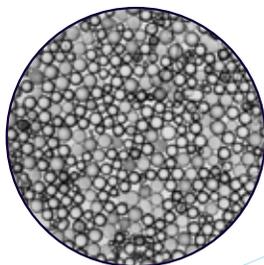


Benefits of the Hydralese Polymer Library:

- 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 provides a range of form factors addressing multiple routes of administration:

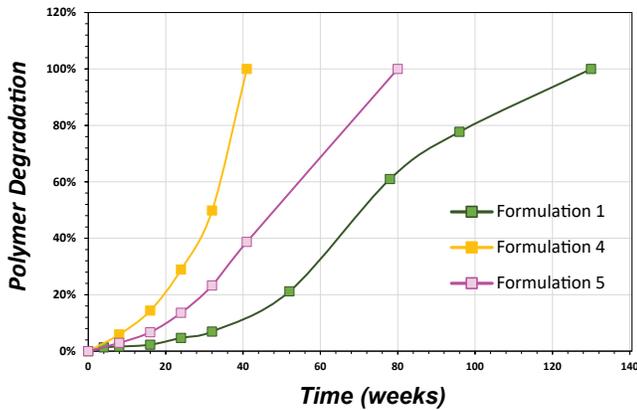
- Injectable solid implants
- Closed-geometry solid implants
- Injectable microspheres
- Other device concepts
- Coatings
- Foams



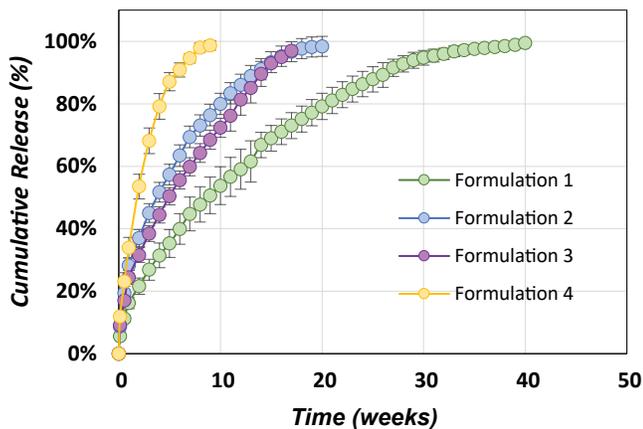
In vitro Release of 2'-deoxyadenosine with Hydralase

- 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

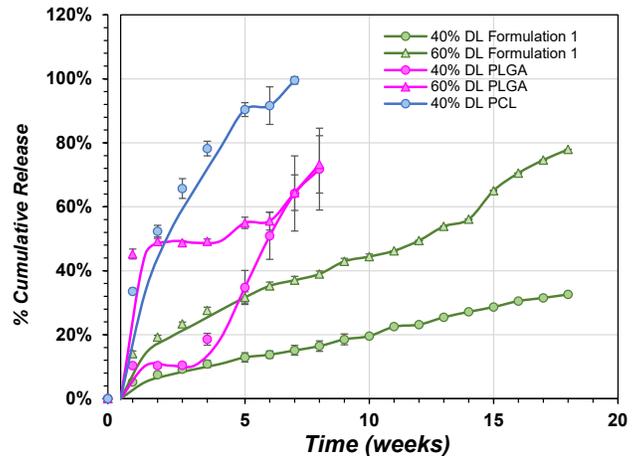


Cumulative Release from 40% Loaded Formulations



In vitro Release Comparison of PLGA, PCL, and Hydralase

- Hydralase polymers show linear release with minimal burst as compared to PLGA and PCL



Partner with Secant to develop your next-generation drug delivery innovation.

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

For more information, visit www.secant.com/drug-delivery or contact us at info@secant.com.

Hydralase® – Engineered for Performance and Possibility

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



Scan for details.