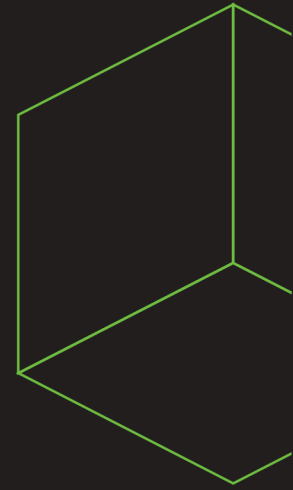




**WESTPAK**  
TESTING. OWNERSHIP. INTEGRITY.

WESTPAK

# Accelerated Aging Testing Services



State-of-the-Art Testing Services Since 1986

## What is Accelerated Aging?

The Accelerated Aging process is based on the relationship between temperature and chemical reaction rate, in which the reaction rate increases as temperature rises. The method uses higher temperatures to accelerate the aging process by artificially representing real-time aging.

It is recognized by regulators worldwide as a valid method to accurately predict the effects of real-time shelf-life and establish expiration claims before real-time aging has concluded. Manufacturers can utilize accelerated aging results as a justification to get the product to market faster and establish the required expiration claims.

## How Does WESTPAK Perform Accelerated Aging Testing?

Accelerated aging testing is performed according to ASTM F1980 "Standard Guide for Accelerated Aging of Sterile Barrier Systems and Medical Devices," the protocol that helps to define the aging parameters.

## Environmental Testing

- Accelerated Aging
- Altitude
- Environmental
- Conditioning
- ICH Stability
- Real-Time Aging / ShelfLife

## Temperature & Humidity

- Temperature Stability
- Thermal Cycling
- Thermal Shock

## Testing Standards

- ASTM F1980
- ASTM F2825
- ASTM D6653
- ASTM D3103
- ASTM D4332



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# Accelerated Aging Testing Services

**WESTPAK's** laboratories utilize stability chambers with temperatures set at +50°C, +55°C, or +60°C, and uncontrolled relative humidity (RH) and chambers at +55°C and 50% RH to conduct most of the accelerated aging. However, the customer can request different temperatures and humidity levels as may be required.

Accelerated aging simulates the real-time shelf-life environment; ambient storage temperatures between +20°C and +25°C. +20°C will generate the shortest accelerated aging duration due to the most significant temperature difference and be the least conservative.

## WESTPAK's Accelerated Aging Services

Stability and Environmental Chambers Are Utilized for Accelerated Aging

- Of the 90+ environmental chambers available, 42 are shared and individually set for our most popular conditions.
- Temperatures lower and higher than those in shared chambers can be used.
- Chambers range in size from walk-in (2,600 ft<sup>3</sup>) to small (4 ft<sup>3</sup>).

WESTPAK uses the Arrhenius equation to calculate Accelerated Aging Time (AAT), based on the relationship between temperature and the chemical reaction rate.

## → Why Choose WESTPAK?

- **Experience and Expertise** - With decades of experience, WESTPAK is a trusted leader in accelerated aging testing. Our skilled team of engineers and technicians ensures precise, reliable results tailored to your product requirements.
- **State-of-the-Art Facilities** - Our extensive range of over 90 stability and environmental chambers, including walk-in and custom-sized units, allows us to accommodate projects of all sizes and complexities.
- **Regulatory Compliance** - WESTPAK strictly adheres to ASTM standards and guidelines, ensuring your testing meets all necessary regulatory and industry requirements.
- **Customization Options** - We offer flexible testing conditions, including varying temperatures and humidity levels, to suit unique material and product needs.
- **Fast Turnaround** - Accelerated aging testing at WESTPAK enables you to get your product to market faster while maintaining the highest quality standards.
- **Comprehensive Support** - From initial consultation to final reporting, WESTPAK provides end-to-end support, helping you understand and leverage your results effectively.
- **Proven Results** - Our long-standing relationships with top-tier medical device manufacturers and other industries are a testament to our consistent delivery of accurate, actionable testing data.

Choose WESTPAK for confidence in your product's performance and shelf-life durability.