

# Ion Exchange Resin Testing: Protect Your System with RTI's Full-Service Lab

In any industrial water treatment system, **ion exchange resin plays a vital role in water purification and process reliability**. Over time, resin performance can degrade due to fouling, exhaustion, or chemical imbalance—all of which can lead to decreased efficiency and unexpected system downtime.

The best way to stay ahead of these issues? **Regular resin analysis**.

At **Recirculation Technologies, LLC (RTI)**, we offer comprehensive resin testing services through our **full-service resin laboratory**. Designed specifically for industrial customers, our lab provides accurate, actionable insights into the condition and longevity of your cation, anion, or mixed bed resin.

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## What We Test – RTI's Resin Analysis Services

RTI's lab is equipped to test **all major resin types**, ensuring a clear diagnosis and tailored recommendations for your system.

### Cation Resin Testing Includes:

- **Total Capacity** – Measures the overall exchange ability of the resin
- **Moisture Content** – Evaluates resin hydration and structural integrity
- **External Fouling Assessment** – Detects surface deposits such as iron or particulates
- **Internal Hardness Fouling Detection** – Identifies calcium and magnesium intrusion that can reduce performance

### Anion Resin Testing Includes:

- **Total Capacity** – Evaluates resin effectiveness in removing anions
- **Salt Split Capacity** – Measures ability to split and remove strong base contaminants
- **External Particulate Fouling** – Checks for mechanical or environmental contamination
- **Internal Organic Fouling** – Detects absorbed organics, including tannins and colorants

### Run Extension Test:

- **Predicts the remaining life and throughput potential** of your anion resin bed before it requires replacement or regeneration.

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## **Added Value: RTI's Patented Test Cleaning Process**

Every resin sample submitted to RTI is **test-cleaned using one of our patented cleaning protocols**. This not only helps diagnose fouling but shows how much performance can be recovered.

Your report will include:




- **"As-received" test results**
- **Post-cleaning analysis results**

This two-step approach gives you a clear picture of whether your resin should be replaced, regenerated, or cleaned—**saving you time and unnecessary costs**.

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## **Why Choose RTI's Resin Lab?**

RTI's resin testing program is designed for **fast, informative, and cost-effective results**:

-  **Results in under 2 weeks**
-  **Test cleaning included at no extra charge**
-  **Free for existing RTI customers**

Whether you're troubleshooting low throughput, optimizing your regeneration schedule, or verifying the condition of aging resin beds, RTI's lab delivers the insights you need.

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## **Applications of Resin Testing**


Resin analysis is especially valuable for:

- Power generation plants
- Chemical manufacturing facilities
- Pulp & paper mills
- Food & beverage operations
- Municipal water treatment plants

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## **How to Get Started**

Need to test your resin?

 **Request a free resin test kit** or schedule a pickup with our field team.

 **Phone:** 215-682-7099    **Email:** [sales@rtiservices.com](mailto:sales@rtiservices.com)   **Website:** [www.rtiservices.com](http://www.rtiservices.com)