

**Certificate of Analysis**  
No. CA09050

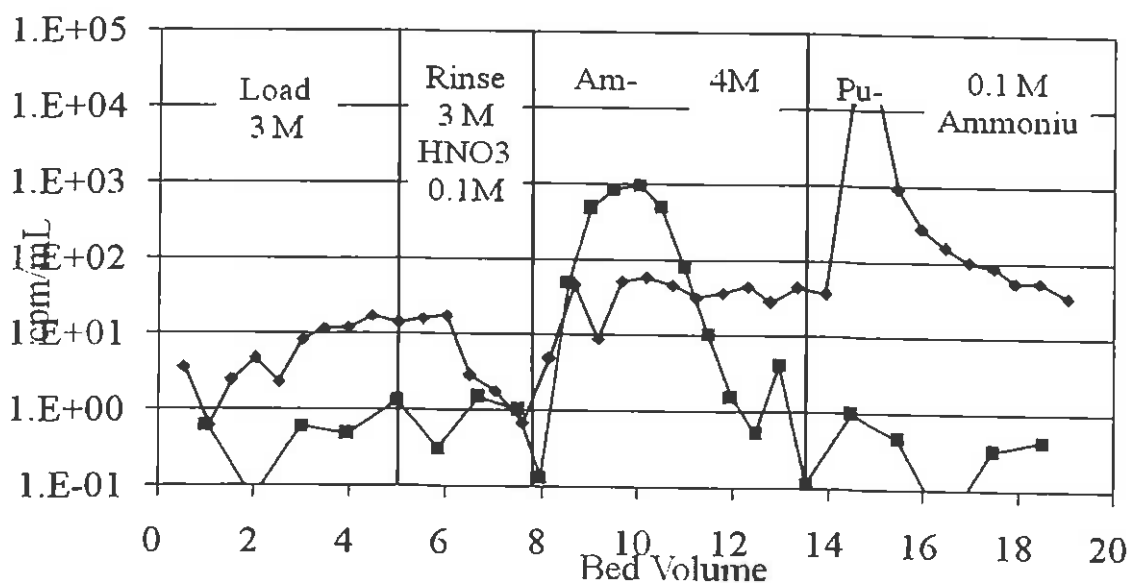
Product: Eichrom's TRU Resin cartridges  
Lot #: TRSR09B

Eichrom's TRU Resin cartridge Lot # TRSR09B has been manufactured according to Eichrom's standard operating procedures. This lot has been tested in accordance with Eichrom's quality assurance policy and procedures. This lot of product meets all Eichrom quality specifications.

**ANALYSIS RESULTS**

| Test Value                                                                     | Specification | Result |
|--------------------------------------------------------------------------------|---------------|--------|
| Appearance                                                                     | White beads   | Pass   |
| Distribution Ratio, Eu in 3.1 N nitric acid                                    | $\geq 60$     | 86     |
| % $^{241}\text{Am}$ stripped in 4M HCl                                         |               |        |
| Least acceptable mean (5 rep)                                                  | 95.0          | 99.9   |
| Max. standard deviation                                                        | 2.5           | 0.3    |
| % $^{241}\text{Am}$ stripped in 0.1M ammonium bioxalate                        |               |        |
| Maximum acceptable mean (5 rep)                                                | 1.0           | 0.1    |
| Max. standard deviation                                                        | 0.5           | 0.1    |
| % $^{239}\text{Pu}$ stripped in 0.1M ammonium bioxalate                        |               |        |
| Least acceptable mean (5 rep)                                                  | 95.0          | 96.8   |
| Max. standard deviation                                                        | 2.5           | 0.7    |
| % $^{239}\text{Pu}$ stripped in 4M HCl                                         |               |        |
| Maximum acceptable mean (5 rep)                                                | 1.0           | 0.2    |
| Max. standard deviation                                                        | 0.5           | 0.2    |
| Extractant distribution ratio, $^{241}\text{Am}$ strip in 0.05M $\text{HNO}_3$ | $<0.50$       | 0.23   |

**TRU Resin Elution Curve**



*Jill Bryant*

April 30, 2009

Jill Bryant  
Quality System Coordinator