

## Certificate of Analysis

No. CA 05131

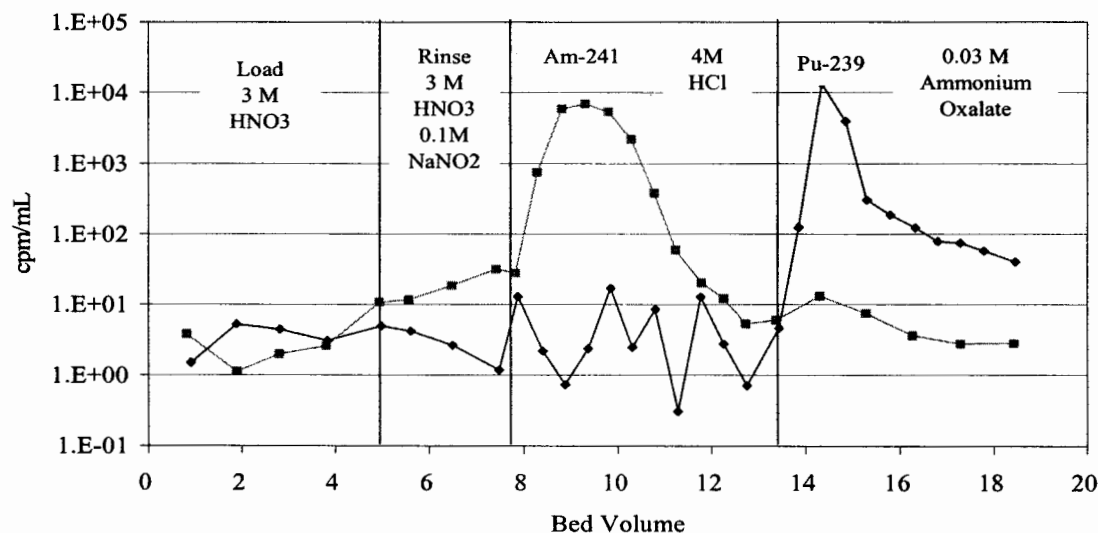
Product: Eichrom's TRU Resin  
Lot #: TRA10055

Eichrom's TRU Resin Lot # TRA10055 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                                    | $\geq 60$     | 76     |
| % $^{241}\text{Am}$ stripped in 4M HCl                                         |               |        |
| Least acceptable mean (5 rep)                                                  | 95.0          | 99.4   |
| Max. standard deviation                                                        | 2.5           | 0.2    |
| % $^{241}\text{Am}$ stripped in 0.1M ammonium bioxalate                        |               |        |
| Maximum acceptable mean (5 rep)                                                | 1.0           | 0.1    |
| Max. standard deviation                                                        | 0.5           | 0.2    |
| % $^{239}\text{Pu}$ stripped in 0.1M ammonium bioxalate                        |               |        |
| Least acceptable mean (5 rep)                                                  | 95.0          | 97.3   |
| Max. standard deviation                                                        | 2.5           | 1.4    |
| % $^{239}\text{Pu}$ stripped in 4M HCl                                         |               |        |
| Maximum acceptable mean (5 rep)                                                | 1.0           | 0.1    |
| Max. standard deviation                                                        | 0.5           | 0.1    |
| Extractant distribution ratio, $^{241}\text{Am}$ strip in 0.05M $\text{HNO}_3$ | $<0.50$       | 0.24   |
| Raw support resin gravity flow rate, mL/min                                    | 0.60-0.80     | 0.71   |

TRU Resin Elution Curve



Eichrom recommends the use of gravity flow with 100-150 $\mu\text{m}$  beads, "A" grade.

*Joel Williamson*

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Prepared: December 22, 2005