

**ACZ Laboratories Inc.**

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**To:** Analytical Staff  
**From:** Kristen Russell  
**Cc:** Audrey Stover, Matt Sowards  
**Subject:** CAR877

**PT Study:** RAD-71 [L65844]      **Open:** 10/5/07      **Close:** 11/19/07

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ACZ received the results of ERA's RAD-71 study. Unacceptable results and corrective actions follow:

Not Acceptable Results							
Parameter	Method	Units	Reported	Assigned Value	Limits	%R	WG#
Uranium	200.8	ug/L	24.3	40.4	32.5 – 45.3		235292 235000

**CORRECTIVE ACTIONS**

**Uranium** – Uranium was analyzed and reported by EPA Method 200.8; however, the data was reported incorrectly. The sample was analyzed in triplicate and the average of the three instrument values was converted to pCi/L and then reported as ug/L. The average result of 36.5 ug/L is within the 32.5 – 45.3 ug/L acceptance limits.

**No further corrective action is require.**



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The Industry Standard™

L 65844

Kristen Russell  
ACZ Laboratories  
2773 Downhill Drive  
Steamboat Springs, CO 80487

***RAD-71***



***Final Report***

**RadChem™ Proficiency Testing**

**RadChem™ Study**

**Open Date: 10/05/07**

**Close Date: 11/19/07**

**Report Issued Date: 12/10/07**

# RAD-71 Final Complete Report



**ENVIRONMENTAL  
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Kristen Russell  
QA/QC Officer  
ACZ Laboratories  
2773 Downhill Drive  
Steamboat Springs, CO 80487  
(970) 879-6590

EPA ID: CO00028  
ERA Customer Number: A144801  
Report Issued: 12/10/07  
Study Dates: 10/05/07 - 11/19/07

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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### **RAD Gamma EmitterS™**

0007	Barium-133	pCi/L	13.3	12.6	8.64 - 15.5	Acceptable	EPA 901.1
0005	Cesium-134	pCi/L	69.7	71.1	58.0 - 78.2	Acceptable	EPA 901.1
0006	Cesium-137	pCi/L	180	180	162 - 200	Acceptable	EPA 901.1
0003	Cobalt-60	pCi/L	22.1	23.2	19.9 - 28.3	Acceptable	EPA 901.1
0004	Zinc-65	pCi/L	279	251	226 - 294	Acceptable	EPA 901.1

### **RAD Gross™ Alpha/Beta**

0001	Gross Alpha	pCi/L	53.8	58.6	30.6 - 72.9	Acceptable	EPA 900.0
0002	Gross Beta	pCi/L	15.3	9.73	4.26 - 18.2	Acceptable	EPA 900.0

### **RAD NaturalS™**

0012	Radium-226	pCi/L	13.9	12.9	9.62 - 14.9	Acceptable	EPA 903.0
0013	Radium-228	pCi/L	17.3	17.9	12.0 - 21.5	Acceptable	EPA 904.0
0014	Uranium (Nat)	pCi/L		27.5	22.1 - 30.8	Not Reported	
0014	Uranium (Nat) mass	µg/L	24.3	40.4	32.5 - 45.3	Not Acceptable	EPA 200.8

### **RAD NaturalS™**

0012	Radium-226	pCi/L	9.68	12.9	9.62 - 14.9	Acceptable	EPA 903.1
0013	Radium-228	pCi/L		17.9	12.0 - 21.5	Not Reported	
0014	Uranium (Nat)	pCi/L		27.5	22.1 - 30.8	Not Reported	
0014	Uranium (Nat) mass	µg/L		40.4	32.5 - 45.3	Not Reported	

