



# St. James Healthcare

*Sisters of Charity of Leavenworth Health System*

**Radiation Oncology Department**  
400 S. Clark St.  
Butte, MT 59701  
Phone: (406) 723-2621  
Fax: (406) 723-2470

Date: 3/9/2010

To: MICHELLE SIMMONS

Fax #: 817-860-8263

From: ROD WIMMER

Number of pages including coversheet: 3

Comments: \_\_\_\_\_  
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**Troxler Electronic Laboratories, Inc.**

3008 Cornwallis Rd., P.O. Box 12057  
 Research Triangle Park, NC 27709  
 Tel: (877) 876-9537 Fax: (866) 391-2759  
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ROD ZIMMER  
 ST JAMES HEALTH CARE  
 400 SOUTH CLARK ST  
 BUTTE, MT 59701

Cust ID: 11567

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**LEAK TEST CERTIFICATE**


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**DEVICE:**

Model: 4-850      Serial No: 14-906

**LEAK TEST ANALYSIS:**

Sample collected on: 01/29/2010

Sample analyzed on: 02/03/2010 at 3:14:00 PM

Analyzed by: D. Rose

|                               | ALPHA    | BETA-GAMMA |
|-------------------------------|----------|------------|
| Conversion factor (cpm/Bq)    | 1.13E+01 | 1.93E+01   |
| Background measurement (cpm)  | 1        | 24         |
| Sample measurement (cpm)      | 0        | 38         |
| Activity (Bq)                 | < MDA    | < MDA      |
| Min. Detectable Activity (Bq) | 6.1E-01  | 1.3E+00    |

**This certifies that the leak test results are:**

Less than 185 Bq (0.005 uCi)

Greater than 185 Bq (0.005 uCi)

# CERTIFICATE OF CALIBRATION

BETA THERAPY SOURCE

MODEL 4-850

NUCLIDE: Sr-90 / Y-90 S/N : H-906 HALF-LIFE :  $28.82 \pm 0.14$  YCUSTOMER: ST. JAMES COMMUNITY HOSPITAL P.O. # 30305NOMINAL ACTIVITY : 125 mCi REFERENCE DATE : MAY 1, 1987THE DOSE RATE AT CONTRACT WERE CALCULATED TO BE 130.0 rads/s


## CALIBRATION METHOD

This source was assayed by extrapolation chamber against NBS calibrated standard number D-402 of identical construction.

## UNCERTAINTY OF MEASUREMENT

- a) Systematic uncertainty :  $\pm$  15 %
- b) Random uncertainty :  $\pm$  5 %
- c) Total uncertainty :  $\pm$  20 % at the 95 % confidence level.

ISOTOPE PRODUCTS LABORATORIES  
1800 NORTH KEystone STREET  
BURBANK, CALIFORNIA 91504



QUALITY CONTROL