

copy



201 College Road East
Princeton, New Jersey 08540-6610
Tel: (609) 919-3317 • Fax: (609) 452-7211

Facsimile

To: Kathy Modes
Fax: 610-337-5269

From: Christopher Ulriksen
Environmental, Health and Safety
Coordinator

Re: Final Swipe test (Control # 132207)

Date: October 16, 2002

Cc:

Total Number of Pages
(including this page):

If Transmission Is Not Complete, Please Call
Telephone: 609-919-3317

Urgent

For Review

Please Comment

Please Reply

As per your request.

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service. Thank you.

NUMSS/RGN-001

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

447 March Road, Kanata, Ontario, Canada K2K 1X8. Telephone: (613) 592-2790 Telefax: (613) 591-6815

Customer Information

Order No. SBUC172C Customer Name BARD BIO PHARMA
Customer's Location PAINCETON N.J.

Irradiator Type and Radiation Source Characteristics

Note: Initial all boxes

Irradiator Type: Ge 40 (e.g. JS-8900, GC-3000) Serial Number: 0097 Radiation Source Type: ⁶⁰Co or ¹³⁷Cs

Wipe Test Details

Wipe Test Performed on: 1. Surface Tests Surface of Transport Package
 Category I & II Irradiators Plug and Cavity of Transport Package
2. Source Tests Underwater Source
 SOURCE HANDLING TOOLS
 OTHER: _____

(SPECIFY)

Description of Procedure Used: Initial One or more: J-Cloth Filter Paper Styrofoam Other: _____
Initial One or more: Wet Wipe Dry Wipe Other: _____

Survey Meter Details and Measurement Results

Survey Meter Make and Model: Bicon Surveyor 2000, with Pancake Probe Other: _____ (Specify)
Survey Meter S.N.: 1037A Calibration Expiry Date: April 19 - 2003
Pancake Probe S.N.: 1517B

Instrument Conversion Factor: Source Tests

N/A cpm = 5 nCi (185 Bq) for ⁶⁰Co (see SE-CA-006 F1), or
1040 cpm = 5 nCi (185 Bq) for ¹³⁷Cs (see SE-CA-006 F1)

Background Reading: 30 cpm (A)
Gross Wipe Reading: 30 cpm (B)
Net Wipe Reading: 0 cpm (C) = (B) - (A). Choose the calculation I. or II.

1. Surface Tests N/A

Wipe Test Results: Negative. Contamination < 0.4 Bq/cm². No further action is required. Retain all wipes for further testing.
 Positive. Contamination ≥ 0.4 Bq/cm². Outline initial corrective action on this form. Follow relevant SOP.

2. Source Tests

(I) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{--- N/A --- cpm}}$ = N/A nCi Cobalt - 60

(II) Measured Removable Contamination = $\frac{\text{Net Wipe Reading (cpm)} \times 5 \text{ nCi}}{\text{1040 cpm}}$ = 0 nCi Cesium - 137

Wipe Test Results: Negative. Contamination < 5 nCi. No further action is required. Retain all wipes for further testing.
 Positive. Contamination ≥ 5 nCi. Outline initial corrective action on this form. Follow relevant SOP.

ROUTINE WIPE TEST FOR CONTAMINATION AND LEAK TEST FORM

Initial the MDS Nordion Wipe Test Procedure Followed

- IN/IM 0273 Co60, Routine Wipe Test for the Detection of Radioactive Contamination for Submerged Cobalt 60 Source Assemblies
- IN/OP 0274 F000, Underwater Transport Package Unload Procedure (requires a separate form)
- IN/OP 0275 F000, Underwater Transport Package Load Procedure
- IN/OP 0276 CO60, Source Holder Load Procedure for a Wet Storage Irradiator
- IN/IM 0278 A000, Routine Wipe Test for ANSI Category I and II Irradiators (⁶⁰Co and ¹³⁷Cs)
- IN/OP 0282 F168, Procedure for the Receipt of an F-168 Transport Package
- IN/IM 0293 F000, Routine Wipe Test for the Detection of Radioactive Surface Contamination for a Type B(U) Transport Package

Reference Information Documents

1. IN/DS 0277 IR000, Radiation Survey Specification for Category III and IV Irradiators
2. IN/DS 0517 F168, Preparation for Shipment of the F-168 and F168-X Transport Packages
3. IN/DS 1093 Z000, Information Document on Survey Meters use by MDS Nordion's Installation and Service Group
4. SE-CA-006, Calibration of a Detection System for the Measurement of Loose Contamination on Wipe

Standard Operating Procedure List and Proper Usage

1. Handling Tools Work Table - IN/IM 0273 Co 60
2. Source Rack - IN/IM 0273 Co 60
3. Building Survey - IN/DS 0277 IR000
4. Leak Test - IN/OP 0282 F168
5. Shipping Container and Inner Plug - IN/IM 0293 F000
6. Torque Specs and Return of Sources Procedure - IN/DS 0517 F168

Outline Initial Corrective Action (if required):

Corrective Action Taken by _____ (Name) _____ (Signature)

Corrective Action Performed on _____ (Date)

Wipe Test Performed by and Result Certified by E STANNON (Name) [Signature] (Signature)

SEAVIER REP (Title) June 14/02 (Date)

For MDS Nordion Internal Use Only

Measurement Result Confirmed by _____ (Name) _____ (Signature)

MEASUREMENT RESULT CONFIRMED ON _____ (DATE)