

WINDOSE DOSIMETRY



Genesys 20 Spectrophotometer with B3 Dosimeter Holder

Micro Incubator Heat Treatment System

Computer, Barcode Reader and WINdose for Excel Software

INTEGRATED AND AUTOMATED WINDOSE DOSIMETRY SYSTEM

The WINdose dosimetry system integrates a Genesys 20 spectrophotometer with a standard PC running Microsoft Windows and MS Excel. Pre-formatted customizable Dosimetry Reports provides simple and fast keyboard data entry with automated data transfer to reduce or eliminate data entry error:

- 1. B3 dosimeter ID data entry is automated by scanning the barcode directly into the Dose Report.**
- 2. Genesys 20 absorbance measurements are transferred to the Dose report with a simple computer keystroke command.**

WINDOSE DOSIMETRY THEORY OF OPERATION

- 1. Obtain and heat treat the process run B3 WINdose or DoseStix dosimeters**
- 2. Zero Genesys 20 and open a new Dosimetry Report and fill in report data**
- 3. Open and scan barcode of first dosimeter verifying data transfer entry**
- 4. Place dosimeter into Genesys 20; verify and auto transfer absorbance measurement value into Dosimetry Report**
- 5. Complete measurement of all dosimeters and print a final Dose Report. Verify printed report against the on-screen report.**
- 6. Printed reports can be audit verified using the Dose Look-Up Table supplied with the GEX Calibration Report.**

ZERO INSTRUMENT



OPEN DOSIMETRY REPORT SOFTWARE AND RECORD DOSE REPORT ID DATA

DOSIMETRY REPORT

Customer: GEX Corporation
Product: Test DoseStix dosimeters
Lot(s): 1234567
Quantity: 100
Process Date: 9/10/2007
Technician: Marian Strzelczyk
Dosimetry Date: 9/11/2007
Instrument: #1011

Process Number: 12345
Process Specification: TEST3
Dmin/Ref Ratio: 0.85
Min Dose Spec: 10
Max Temp in Process (°C): na
Max Dose in Process: 14.4

Dmax/Ref Ratio: 1.2
Max Dose Spec: 50

Min Dose in Process: 10.1

Correction Factor: 1.00
Dosimeter Batch: B3 batch BB
Calibration ID: 2636-BB-ZGEX

Wavelength (nm): 554
Calibration Date: 10/13/06
Dose Range: 0.1 to 100.1 kGy

Average Thickness (t): 0.017
Initial Average Absorbance (Ao): 0.000
Software Version: 1.4.9

P8003	Dosimeter ID	Dosimeter Position	Irradiated Absorbance (Ai)	Response (Ai - Ao) / t	Dose (kGy)	Adjusted Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9	11.9
	5134030A	Reference #2	0.206	12.118	12.0	12.0
			0.000	0.000	na	

DoseReport(B3000) / DoseReport(B3004) / X Uniformity(B3106) / Y Uniformity(B3106) / Riso Wedge(B3110) / Stack 500kV(B320C) | <

RECOVER HEAT TREATED DOSIMETERS AND SCAN FIRST DOSIMETER BARCODE



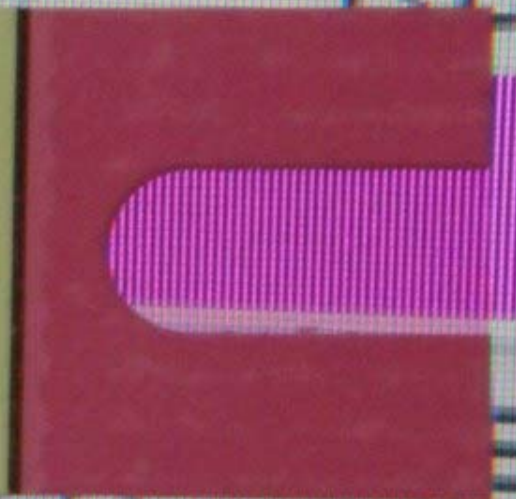
SCAN AND VERIFY BARCODE ENTRY

5377622A

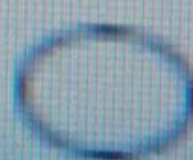
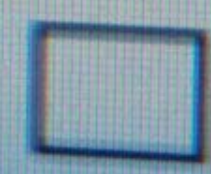
5377622A



BB 5377622A



Shapes ▾



INSERT AND READ B3 DOSIMETER



OBSERVE GENESYS 20 READING



VERIFY ABSORBANCE VALUE TRANSFER

Dosimetry Date: 9/11/2007

Instrument #111

Min Dose in Pro

Correction Factor: 1.00

Dosimeter Batch: B3 batch BB

Wavelength (nm): 554

Calibration ID: 2636-BB-ZGEX

Calibration Date: 10/13/07

Dose Range: 0.1 to 100.0

Dosimeter ID	Dosimeter Position	Irradiated Absorbance (Ai)	Response (Ai - Ao) / t	Dose (mSv)
5125905B	Reference #1	0.205	12.059	11.9
5134030A	Reference #2	0.206	12.118	12.0
5377622A	Reference #3	0.465	27.353	33.9
		0.000	0.000	na

DoseReport(B3000) / DoseReport(B3004) / X Uniformity(B3106) / Y Uniformity(B3106)

AutoShapes

start

Phone Manager Lite ...

2636-BB-ZGEX (W4E ...)

WINdose for Excel - ...

Max Temp	Dosimeter ID	Position	Absorbance (Ai)	(Ai - Ao) / t	Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9
	5134030A	Reference #2	0.206	12.118	12.0
	5377622A	Reference #3	0.465	27.353	33.9
			0.000	0.000	na

GEX Corporation
 7330 S. Alton Way, Suite 12i
 Centennial, CO 80112

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 Product: Test DoseStix dosimeters
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 Quantity: 100
 Process Date: 9/10/2007
 Technician: Marian Strzelczyk
 Dosimetry Date: 9/11/2007
 Instrument: #1011

Process Number: 12345
 Process Specification: TEST3
 Dmin/Ref Ratio: 0.85
 Min Dose Spec: 10
 Max Temp in Process (°C): na
 Min Dose in Process: 10.1

Dmax/Ref Ratio: 1.2
 Max Dose Spec: 50
 Max Dose in Process: 40.7

Correction Factor: 1.00
 Dosimeter Batch: B3 batch BB
 Calibration ID: 2636-BB-ZGEX
 Wavelength (nm): 554
 Calibration Date: 10/13/06
 Dose Range: 0.1 to 100.1 kGy
 Average Thickness (t): 0.017
 Initial Average Absorbance (Ao): 0.000
 Software Version: 1.4.9

Max Temp	Dosimeter ID	Dosimeter Position	Irradiated Absorbance (Ai)	Response (Ai - Ao) / t	Dose (kGy)	Adjusted Dose (kGy)
	5125905B	Reference #1	0.205	12.059	11.9	11.9
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	5377622A	Reference #3	0.465	27.353	33.9	33.9
			0.000	0.000	na	na

Prepared by: _____ Date: _____
 Reviewed by: _____ Date: _____