



GEX DOC# 100-253

DOSIMETRY LAB REQUIREMENTS

GEX Recommended Procedure

Eff. Date: 07/27/07

Rev.: B

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1.0 PURPOSE

The following information is intended to provide general information and requirements for a suitable dosimetry lab area.

2.0 MATERIALS

- 2.1 Instrument locations should be vibration-free and properly ventilated.
- 2.2 Limit access to the dosimetry laboratory equipment and instrumentation to properly trained personnel. It is recommended that the dosimetry laboratory be in a controlled access area and an isolated room is suggested.
- 2.3 Temperature should be maintained at normal room temperatures, typically between 15°C and 30°C. See additional manufacturer's recommendations supplied with equipment and instruments for additional requirements.
- 2.4 Relative humidity should be maintained between 30% and 70% if B3 dosimeters are used outside their GEX factory packaging. If only pre-packaged dosimeters supplied by the manufacturer are used, deviation from these recommendations will not affect dosimeter readings.
- 2.5 The laboratory area should avoid activities that generate particulate. Cleaning of surfaces should be accomplished by wiping with a wet cloth or a vacuum technique; dry dusting and sweeping practices should be discouraged.
- 2.6 Power outlets: 6-8 plugs - can be spaced duplex or quadplex outlets or a power strip. Be aware that some equipment may have large transformers in their plugs that will cover up some outlets.
- 2.7 Electrical line power quality should be managed using surge protection and electrical power back-up for spectrophotometers and instrumentation to allow safe shutdown during a power outage. 20-40 Amps per outlet should satisfy equipment specifications.
- 2.8 The P4900 micro incubator requires a space footprint of 6" X 12" and The P4800 incubator requires about approximately 20" X 20" of counter space to allow for actual size plus airflow.



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- 2.9 Each Genesys 20 spectrophotometer requires approximately 24" x 24", including space for users to open dosimeters, air flow, bar code reader, and cables at the back.
- 2.10 Countertops are recommended to be of Formica or sealed wood. Metal tables should be grounded to reduce static potential. A desk is suitable for dosimeter measurements. A waist-height countertop is useful for preparing tests.
- 2.11 UV Filter material is required for any and all windows and fluorescent light fixtures that is capable of eliminating 99 percent or more of indirect light and UV radiation in the dosimetry area. See GEX Recommended Procedure 100-250, UV Control and Monitoring, for more detail.

3.0 REVISION HISTORY

Date	Revision	Change Description
07/27/07	B	Changed recommended temperature Other minor language revisions and additions