

GeneAmp® PCR System 9700 Routine Maintenance

The GeneAmp® PCR System 9700 has a strong performance history. To maintain the instrument in top working order it is advisable to perform routine maintenance on the instrument. Depending on the level of usage of the instrument, it is recommended that the following procedures be performed at least 2-4 times per year. For high end users a 3-month maintenance cycle is recommended and for lower end users a 6-month maintenance cycle is recommended.

Cleaning the Sample Wells:

- Turn off the instrument and let instrument cool for 10-15 minutes.
- Thoroughly clean wells with a cotton swab soaked with 100% isopropanol.
- If wells are contaminated, clean thoroughly with a cotton swab soaked with a 10% bleach solution.
- Rinse wells with water.
- Wells should be completely dry before using instrument.

Cleaning the Heated Cover:

- Turn off the instrument and let instrument cool for 20-30 minutes.
- Raise the heated cover lever. Please refer to the GeneAmp® PCR System 9700 User's Manual for detailed information on raising the heated cover.
- Gently wipe the bottom of the heated cover with a cloth soaked with 100% isopropanol.
- If the heated cover is contaminated, wipe the bottom of the cover with a cloth soaked in a 10% bleach solution.
- Rinse with water.
- Wait for the cover to dry before returning the cover to its normal position.

Running the Temperature Verification Tests:

The Temperature Verification Tests includes running the Temperature Calibration Test and Temperature Non-Uniformity Test (TNU). These tests are designed to assess the thermal dynamics of the instrument. Please refer to the GeneAmp® PCR System 9700 User's Manual for complete instructions.

NOTE: The following procedures require the use of a Temperature Verification System: 96 well block – TVS P/N 4317939 384 well block – TVS P/N 4308354 60 well block – TVS P/N 4309924

- [Temperature Calibration Test](#) - verifies that the instrument meets temperature accuracy specifications
- [Temperature Non-Uniformity Test](#) - verifies the temperature uniformity of the sample block

An instrument that fails these tests may require service by a qualified Applied Biosystems repair specialist. Please call 1-800-831-6844 to contact Thermal

Cycler Service Support (U.S. only). For all other countries, please contact your local Applied Biosystems service representative.

Running the System Performance Tests:

The System Performance Tests include running the Rate Test and the Cycle Test. These tests are designed to assess the integrity of the heating and cooling system. Please refer to the GeneAmp® PCR System 9700 User's Manual for complete instructions.

- **Rate Test** - verifies that the Peltier units are operating correctly
- **Cycle Test** - verifies that the PCR cycling function is operating correctly

An instrument that fails these tests may require service by a qualified Applied Biosystems repair specialist. Please call 1-800-831-6844 to contact Thermal Cycler Service Support (U.S. only). For all other countries, please contact your local Applied Biosystems service representative.

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