

**QUALITY ASSURANCE/QUALITY CONTROL WORKSHEET  
DEPARTMENT OF FORENSIC SCIENCE  
THERMAL CYCLER 9700 DIAGNOSTIC TESTS**

Instrument Name: \_\_\_\_\_

ANALYST \_\_\_\_\_ DATE \_\_\_\_\_

PROBE SERIAL # \_\_\_\_\_ PROBE EXPIRATION DATE \_\_\_\_\_

A. **Calibration Verification:** Setpoint Value (Well A6) 85°C \_\_\_\_\_ 45°C \_\_\_\_\_

PASSED \_\_\_\_\_ FAILED \_\_\_\_\_

B. **Temperature Non-Uniformity:**

Setpoint	94°C	37°C
A1		
A12		
C4		
C9		
F4		
F9		
H1		
H12		

TNU at 94°C \_\_\_\_\_  
TNU at 37°C \_\_\_\_\_

PASSED \_\_\_\_\_ FAILED \_\_\_\_\_

C. **System Performance Diagnostics:** Rate and Cycle test

1. Cool and Heat Rate Test

2. Cycle Performance

Heating rate: \_\_\_\_\_ °C/s

Average Cycle Time: \_\_\_\_\_ sec

Cooling rate: \_\_\_\_\_ °C/s

Cycle Time STD: \_\_\_\_\_ sec

PASSED \_\_\_\_\_ FAILED \_\_\_\_\_

PASSED \_\_\_\_\_ FAILED \_\_\_\_\_