

## Certificate of Calibration

Dated: 23.5.2008

Instrument:

Model Number:

**PCR 2400** 

Serial Number:

803N5110309

Customer: Address:

Fakultní nemocnice Olomouc

Mgr. Jiří Pavlíček

I.P.Pavlova 6

77521 Olomouc

## **Chiller and Heater Test**

			Specification	Result
Heater Test:	0,97	°C/sec	0.7 - 1.1 °C/sec	Pass
Lag:	1,53	sec	<4.5 sec	Pass
Chiller Test:	2,91	°C/sec	>1.99 ℃/sec	Pass
Lag:	1,09	sec	<4.5 sec	Pass
Power @4 °C	19	W	>15 W	Pass

## **Temperature Accuracy**

Instrument target	Probe reading (°C)	Probe / offset corr. (℃)	Actual temp. (°C)	Result
@92 ℃ (<1 ℃)	92,1	0,0	92,1	Pass
@56 °C (<1 °C)	56,1	0,0	56,1	Pass
@20 °C (<1 °C)	20,0	0,0	20,0	Pass

## **Temperature Uniformity:**

Instrument cycled between 94 °C and 37 °C and temperature recorded after 120 seconds at well listed below.

A2	94,1	37,3	A7	94,3	37,3	1		
<i>B</i> 1	93,8	37,3	B4	94,3	37,4	B8	93,9	37,4
C2	94,4	37,3	C7	94,3	37,5		····	3

	3 5 8 1 4 8 2		
Uniformity	Max. Variance (°C)	Average temp. (°C)	Result
@37 °C (<1 °C)	0,26	37,35	Pass
@94 °C (<1 °C)	0,65	94,15	Pass

Thermometer Cal. No.:

01D400661

Calibrations are carried out in accordance with the procedures provided in the Applied Biosystems Service Manual for each model of thermal cycler.

Calibration Valid Until:

22.5.2009

Calibrated By: Pavol Oravec

Certificate Number: 000320164649