

of **CYCLERtest B.V. / Celsiuslabs**
Afdeling Kalibratie "Celsiuslabs"
Landgraaf

This annex is valid from: **24-04-2013** to **01-05-2017**

Replaces annex dated: **28-02-2011**

HCS code	Measured quantity, Instrument, Measure	Range	CMC *	Remarks
Laboratory Landgraaf				
TE 4 1	Self indicating thermometers	30,0 tot 100,0 °C	0,04 K	In liquid bath
		30,0 tot 95,0 °C	0,13 K	In multi-well dry-block calibrator
		30,0 tot 95,0 °C	0,2 K	In single-well dry-block calibrator
Location Customer				
TE 13 0	Other closed temperature sources	30,0 tot 95,0 °C	0,1 K	(q)PCR cycler thermocycler

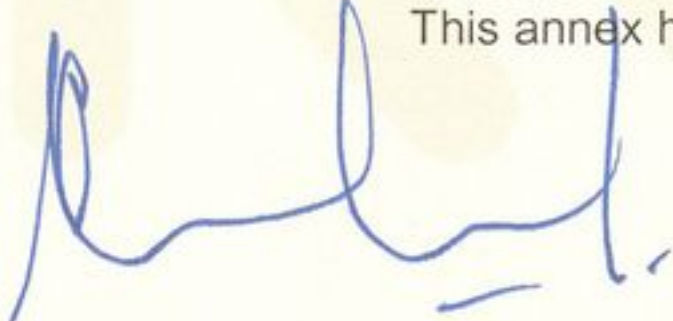
* Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range.
Measurement uncertainty, U , is calculated according to EA-4/02 "Expression of the Uncertainty of Measurement in Calibration".

The ambient temperature during calibrations in the own laboratory is nominal (23 ± 5)°C

Calibrations TE 13.0 on Location Customer are performed by a multi-channel calibration, where the temperature of the thermocycler reaction block is measured simultaneously and dynamically in at least 12.5 % of the wells (or minimum 12 well when reaction block ≥ 96 wells) with a measurement interval of maximum 500 ms.

The calibration is performed at least at 3 relevant temperature set points in the range as stated in the scope.

This annex has been approved by:



Ir. J.C. van der Poel
Chief Executive