

## Technical Datasheet

### PARR™ Excellence Buffer

Cat No:	CA-1149-01	Pack size:	1ml
Lot No:	_____	Concentration:	X10
Contents:	Tris and counterions (pH 8.0 measured at 25°C); 15mM magnesium ions (giving a final concentration of 1.5mM). PARR buffer also contains special reagents which enhance the binding of DNA polymerases to their substrates.		
Properties:	Incubation of this buffer with most Taq and other thermostable DNA polymerase preparations gives enhanced PCR* performance (typically 2-fold greater amplification than with other buffers), meaning that less polymerase has to be used per reaction.		
Recommended pre-assay warm-up:	Thaw vial, warm to 50°C in a water bath, and invert 4-5 times. Cool to room temperature and proceed.		
Recommended assay conditions (buffer diluted 10X):	200µM nucleotides and up to 0.5µg of each primer		
Notes:	PCR reactions are notoriously sensitive to the Mg <sup>++</sup> ions to nucleotide concentration. Where template-specific problems are encountered, some users have overcome these difficulties by lowering the buffer component to 0.65X and decreasing the nucleotide concentration to 130µM of each dNTP.		
Quality Control:	This batch of PARR buffer has been independently quality controlled. It is prepared under aseptic conditions in an environment, which is as DNA-free as possible. Because the buffer is prepared away from the researcher's laboratory, there is less danger of contamination.		
Storage:	Store at -20°C.		

\* This buffer has been designed exclusively for Cambio Ltd to optimise and improve the yield of products produced by PCR. PARR is the trademark of Cambio Ltd. PCR is covered by patents owned by Hoffmann-La Roche for which only licensed polymerases should be used.

## Quality control

**Lot: 26663**

- 1) c-mos PCR with primers p5 and p6 from mouse genomic DNA, supported by PARR buffer or supplier X standard PCR buffer.

Lane 1	PARR buffer
Lane 2	PARR buffer no DNA control
Lane 3	supplier X buffer
Lane 4	supplier X buffer no DNA control

- 2) ROSA26 locus PCR primers R261 and R263 from mouse genomic DNA supported by PARR buffer or supplier X standard PCR buffer.

Lane 5	PARR buffer
Lane 6	PARR buffer no DNA control
Lane 7	supplier X buffer
Lane 8	supplier X buffer no DNA control.

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RESEARCH USE ONLY

11<sup>th</sup> Nov 2003