



## The 16s/23s ribosomal spacer region as a target for DNA probes to identify eubacteria

T. Barry, G. Collieran, F. Glennon, et al.

*Genome Res.* 1991 1: 149

Access the most recent version at doi:[10.1101/gr.1.2.149-a](https://doi.org/10.1101/gr.1.2.149-a)

---

### License

#### Email Alerting Service

Receive free email alerts when new articles cite this article - sign up in the box at the top right corner of the article or [click here](#).

---

A promotional banner for Cellecta's CRISPR and RNAi Genetic Screening. The text reads "CRISPR and RNAi Genetic Screening. Your new superpower." To the right is a "LEARN MORE" button and a photograph of a woman in a red superhero mask and cape. The Cellecta logo, a green molecular structure, is in the bottom right corner.

CRISPR and RNAi Genetic Screening.  
Your new superpower.

LEARN MORE

CELLECTA

---

To subscribe to *Genome Research* go to:  
<https://genome.cshlp.org/subscriptions>

**ERRATUM**

Barany, F. 1991. The ligase chain reaction in a PCR world. *PCR Methods Applic.* **1**:5-16.

Table 1 of the above titled paper inadvertently listed an incorrect value for NAD in Method 1; the correct value is 1 mM, not 10 mM as stated. The correct version of Method 1 is reproduced on this page.

**TABLE 1** Ligase Chain Reaction Methods

	Method 1 <sup>a</sup>
Target DNA	$\beta^A, \beta^S$
Standard detection	1-10 attomoles ( $6 \times 10^5$ to $6 \times 10^6$ molecules)
Signal-to-noise no target under standard conditions	1700 to >2000 <sup>b</sup>
single-base mismatch under standard conditions	75 to >500 <sup>b</sup>
Lowest detection	200 molecules
Position of discriminating nucleotide	3' base of both strands (single- base 3' overhang)
$T_m$ discrimination oligonucleotides	64°C-68°C (23- to 28-mers)
$T_m$ adjacent oligonucleotides	70°C (22-mers)
Amount of each oligonucleotide	40 femtomoles (0.28 ng)
Volume	10 $\mu$ l
Buffer conditions	20 mM Tris-HCl, pH 7.6 <sup>c</sup> 100 mM or 150 mM KCl 10 mM MgCl <sub>2</sub> 10 mM DTT 1 mM NAD <sup>+</sup> 1 mM EDTA
Carrier DNA to suppress background	4 $\mu$ g of salmon sperm DNA
Additional features for suppression of target independent background	5' phosphate on adjacent oligonucleotides only; noncomplementary tails on outside of oligonucleotides; single-base 3' overhang on discriminating oligonucleotides
Thermostable enzyme	15 nick-closing units <sup>d</sup>
Cycle conditions	94°C, 1 min 65°C, 4 min 20 or 30 cycles
	or
	94°C, 0.5 min 65°C, 2 min 30 or 40 cycles

**ERRATUM**

Barry, T., G. Collieran, M. Glennon, L.K. Dunican, and F. Gannon. 1991. The 16s/23s ribosomal spacer region as a target for DNA probes to identify eubacteria. *PCR Methods Applic.* **1**:51-62.

Figure 4 has errors in the A1 and B1 primers. The correct primers are:  
A1 5'-AGTCGTAACAAGGTAGCCG-3'  
B1 5'-C T/C A/G T/C TGCCAAGGCAT  
CCACC-3'