

The reaction mixture (master mix) was prepared as follows:

Reagent	Final concentration	Vol. in $\mu\text{l}$
Sterile de-ionized water	-	$12.04 \times 12 = 144.48$
10 X PCR buffer	1 $\times$	$2.0 \times 12 = 24.00$
10mM dNTP mix	200 $\mu\text{M}$ of each	$0.16 \times 12 = 1.92$
25 mM magnesium chloride	2m M	$0.8 \times 12 = 6.0$
Primer ( F)	4pM	$1 \times 12 = 12.0$
Primer( R)	4pM	$1 \times 12 = 12.0$
<i>Taq</i> DNA polymerase	1U	$1 \times 12 = 12.0$
		$18.0 \times 12 = 216.0$