**Table 2: Reaction mixture for PCR**

|  |  |  |
| --- | --- | --- |
| **Chemical**  **Stock Concentration** | **Final Concentration** | **Final Volume (μl)** |
| Buffer (5X) | 1 X | 10.00 |
| MgCl2 (25 mM) | 2.5 mM | 5.00 |
| dNTPs mix (10 mM) | 0.05 mM | 2.00 |
| Forward Primer (100 μM) | 0.5 μM | 1.00 |
| Reverse Primer (100 μM) | 0.5 μM | 1.00 |
| DNA Polymerase (5U/ul) | 0.5 unit | 0.50 |
| DNA template | 10 to 500 ng | 1.00 |
| ddH2O | up to final volume of 50 μl | 29.50 |
|  | Total | 50.00 μl |