

## Human cDNAOK!®

The easy way to check the quality of your human cDNA preparations

### Protocol

- Mix together 7.5  $\mu$ l of Human cDNAOK mix and 12.5  $\mu$ l of MegaMix-Gold
- Add 1 to 5  $\mu$ l cDNA\*. Adjust volume with water if less is added
- Overlay with mineral oil if necessary
- Place in a Thermal Cycler

### Cycling profile

Initial denaturation step: 95°C for 5 mins

Then cycle **33** times:

Step 1: 95°C for 30 secs

Step 2: 59°C for 20 secs

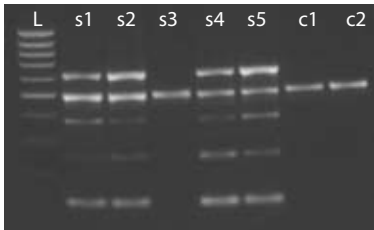
Step 3: 72°C for 45 secs

After cycling, load 10  $\mu$ l onto 1.75% agarose gel and electrophorese alongside a DNA size ladder. Make sure that the sample hasn't evaporated during cycling, as this will distort the results

**Expected fragment sizes: 125, 250, 375, 400, 500 and 650 bp**

### Example

Human cDNAOK! carried out on 5 different cDNA samples (s1 to s5) and control samples (c1 to c2)



L = 100 bp DNA Ladder

s1 to s5 = cDNA test samples

c1 = Human genomic DNA (negative control)

c2 = No human cDNA/DNA (negative control)

### Interpretation of results

- If all 5 fragments are observed the cDNA is more than likely to be okay (as s1, s2, s4 & s5)
- If all, except the 500 bp fragment are missing, the cDNA is likely to be bad quality (as s3)

The 500 bp fragment is derived from an internal control and should always be present. If not, PCR has failed and needs repeating

\*Made using oligo dT or random primers

### Related Products

**100 bp DNA ladder** = An agarose size standard supplied 'ready to load' in room temp stable loading buffer

**Just Water** = Molecular grade water in handy sizes

Supplied as: cDNA/Primer Mix = blue solution & MegaMix-Gold = clear solution in multiple of 1 ml aliquots

Store at -20°C

For Research Only