



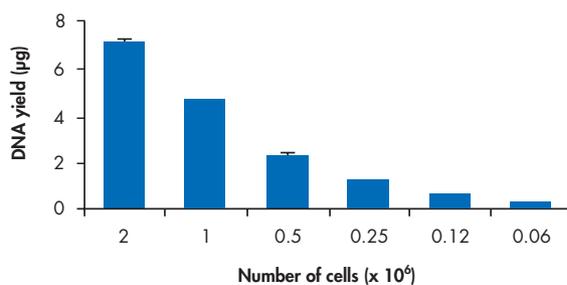


**Table 1. Average yields and purities of DNA purified from  $2 \times 10^6$  frozen, cultured cells**

Dilution buffer	DNA purity ( $A_{260}/A_{280}$ )*	DNA yield ( $\mu\text{g}$ )
PBS	$1.88 \pm 0.01$	$6.84 \pm 0.88$
1x SSC	$1.88 \pm 0.00$	$6.96 \pm 0.29$
6x SSC	$1.86 \pm 0.05$	$7.20 \pm 0.29$
Lysis buffer	$1.89 \pm 0.01$	$7.31 \pm 0.21$
TE	$1.88 \pm 0.00$	$6.08 \pm 0.14$

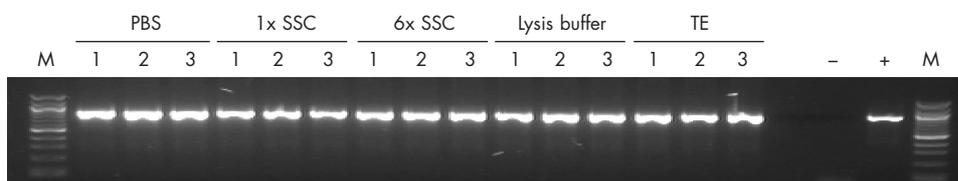
\* Corrected for background at 320 nm.

**Quantitative Yields of DNA from a Range of Sample Concentrations**



**Figure 1.** Average yields of DNA purified from dilution of frozen, cultured cells. Triplicate samples were processed for each dilution.

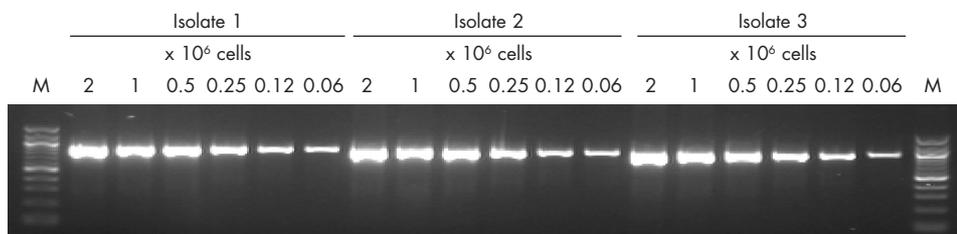
**PCR without Inhibition**



**Figure 2.** PCR of the single-copy gene MECL-1 from frozen, cultured cells diluted in various buffers. **M:** 100 bp ladder (100 ng); -: negative control; +: positive control.



### PCR Results Correlate Strongly with Cell Numbers



**Figure 3.** PCR of the MECL1 single-copy gene (900 bp fragment, 34 cycles) from dilution series of frozen, cultured cells. A 5 µl aliquot of each PCR product was applied to the gel. **M:** 100 bp ladder (100 ng).

### Conclusion

MagAttract technology in combination with the BioRobot M48 workstation reliably and efficiently purifies DNA from frozen, cultured cells.

- MagAttract technology automated using the BioRobot M48 workstation, purifies approximately 7 µg genomic DNA from 2 x 10<sup>6</sup> cultured cells
- Both DNA yield and PCR results correlate strongly with the number of cells processed
- A single prep provides sufficient template for over 550 PCR analyses of single-copy genes

Contact QIAGEN today and discover the benefits of fully automated purification of DNA from cultured cells

### Ordering Information

Product	Contents	Cat. No.
BioRobot M48 workstation	Robotic workstation for automation of magnetic-particle purification technology	9000708
MagAttract DNA Mini M48 Kit (192)*	MagAttract Suspension and reagents for purification of genomic DNA from 192 tissue lysates and other samples of 200 µl using the BioRobot M48 workstation	953336

The BioRobot M48 is intended as a microtiter diluting and dispensing device. No claim or representation is intended for its use in identifying any specific organism or for a specific clinical use (diagnostic, prognostic, therapeutic, or blood banking). It is the user's responsibility to validate the performance of the BioRobot M48 for any particular use, since its performance characteristics have not been validated for any specific organism. The BioRobot M48 may be used in clinical diagnostic laboratory systems after the laboratory has validated their complete system as required by CLIA '88 regulations in the U.S. or equivalents in other countries.

\* MagAttract Kits are intended as general-purpose devices that may be used in clinical diagnostic laboratory systems after the laboratory has validated their complete system as required by CLIA '88 regulations in the U.S. or equivalents in other countries.

