

Guthrie card can be extracted using this kit to provide enough material for a minimum of 10-20 amplification reactions. Furthermore, lanes 3-6 suggest quantitative recovery of the DNA, since the larger the volume of blood spotted, the greater the amount of PCR product that is produced when all other parameters of the extraction and amplification reactions remain constant.

Conclusion

The MasterPure Complete DNA and RNA Purification Kit provides a simple and efficient method of purifying small quantities of DNA from dried blood specimens. With this methodology, as little as 1 µl of dried blood can be extracted, generating enough genomic DNA to perform a minimum of 10-20 amplifications. This offers a significant advantage over other extraction protocols, which consume the entire Guthrie card collection spot (containing approximately 50 µl of blood) in a single amplification reaction. Thus, use of the MasterPure Complete Kit will allow investigators to make efficient use of archival dried blood specimens, which are limited in quantity and non-replenishable.

References

1. Dezateux, C. (1998) *Br. Med. Bull.* **54**, 877.
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3. Makowski, G.S. *et al.* (1996) *Ann. Clin. Lab. Sci.* **26**, 458.
4. Makowski, G.S. *et al.* (1998) *Ann. Clin. Lab. Sci.* **28**, 254.
5. Miller, S.A. *et al.* (1988) *Nucleic Acids Res.* **16**, 1215.
6. Watson, J. (1999) *Epicentre Forum* **6**, 6.

MasterPure Complete DNA and RNA Purification Kit

MC89010-F71	10 Purifications (trial size)*
MC85200-F71	200 Purifications

*Limit 2 per customer

For more information, please circle reader service number N713 on the reply card found in the center insert or visit our website at



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Recover Intact DNA 50 kb to >2 Mb in Length

GELase™ Agarose Gel-Digesting Preparation

GELase Agarose Gel-Digesting Preparation is a unique enzyme solution developed at EPICENTRE for quantitative recovery of intact DNA from low melting point (LMP) agarose gels following electrophoresis in TAE, TBE, MOPS, or phosphate buffers. Excised gel bands can be digested in the above-mentioned buffers, or for higher activity, GELase Buffer may be added to or exchanged with those buffers.

Applications:

Recover high molecular weight nucleic acids from low melting point (LMP) agarose gels for use in:

- Preparation of YAC, BAC, cosmid, and plasmid vectors
- Subcloning from YACs, BACs, and cosmids
- Microinjection
- Size selection of genomic DNA for subsequent cloning
- Restriction mapping
- PCR

Benefits:

- Gentle procedure — purify multi-megabase DNA that is intact and biologically active
- Recoveries of DNA consistently approach 100%
- Protocol requires minimal hands-on time
- High activity—GELase Preparation is more active than other gel-digesting enzymes*
- Cost effective—GELase is priced well below spin column or other gel-digesting methods*

GELase™ Agarose Gel-Digesting Preparation

1 U/ul

G09050-F71	50 U
G09100-F71	100 U
G09200-F71	200 U

0.2 U/ul

G31050-F71	50 U
G31100-F71	100 U
G31200-F71	200 U

Both Concentrations Include GELase™ 50X Reaction Buffer

*One unit of GELase Preparation is equivalent to approximately three units of other gel-digesting enzymes.