Introduction

The key to successful PCR is the preparation of high-purity nucleic acid templates. Some nucleic acids, as well as other substances, may interfere with PCR. In particular, clinical samples like blood and body fluids may contain inhibitory factors such as EDTA, heparin and porphyrins (hemoglobin).

Nucleic acid purification should:

- Allow the isolation of intact DNA or RNA templates from numerous biological sources and at various scales
- Guarantee the complete removal of interfering nucleic acids and low molecular weight components
- Involve minimal exposure to chemical hazards (*e.g.*, phenol) that affect the quality of the nucleic acid
- Process a large number of samples quickly and conveniently

Roche Applied Science provides an extensive product line to meet all of your amplification needs. Although all of our products will perform in a broad array of applications, you can leverage products individual characteristics for your specific applications.

In this chapter you get an overview on our innovative high quality products for RT-PCR and PCR. These products have been function tested to perform optimally with the nucleic acid purification products listed in this manual.

Choose Roche Applied Science RT-PCR and PCR products to obtain:

- Maximum performance and reproducibility
- Optimal results, whether you are:
  - *Amplifying short, medium, and long DNA fragments*
  - *Cloning with PCR*
  - *Attempting to detect trace quantities of mRNA*

Where to get more information on our PCR and RT-PCR products

To learn more about these products and their uses, get the following information from your Roche Applied Science representative:

- *PCR Applications Manual* (also available on our web site: www.roche-applied-science.com/prod_inf/manuals/pcr_man/start.html)
- *Biochemicals Catalog*
- *Biochemica* newsletters, (also available on our web site: www.roche-applied-science.com)
- *Brochure "Tools for Amplicfication".*