



FAQs: MasterPure™ Complete DNA and RNA Purification Kit/DNA Purification Kit/RNA Purification Kit

[How stable is the DNA or RNA after purification?](#)

[Do I need to use RNase inhibitors when I'm using the MasterPure RNA Purification kit?](#)

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[I want to isolate DNA from whole blood. Which MasterPure kit should I use?](#)

[The DNA/RNA isn't very pure by 260/280 when I'm done. What can I do about this?](#)

[I lost my DNA/RNA after ethanol precipitation. What happened?](#)

[Do you have any published references for the MasterPure Kits \(other than what's in your Forum\)?](#)

[I'm getting low DNA/RNA yields when I use the MasterPure Kit. Why?](#)

[I tried to quantitate my DNA by OD260 but the reading seems very high. Why is this? Is there another way to accurately quantitate my DNA or RNA?](#)

[My DNA/RNA pellet is still "dirty" after MPC Protein Precipitation reagent steps. How can I clean up the DNA/RNA when this happens?](#)

How stable is the DNA or RNA after purification?

Several years, when stored at -20°C or lower.

Do I need to use RNase inhibitors when I'm using the MasterPure RNA Purification kit?

It is generally not necessary, but may be used. We recommend Riboguard(TM) The addition of RNase inhibitors is not necessary with the MasterPure™ RNA Purification Kit. The combination of Proteinase K digestion and the MPC Protein Precipitation Reagent, which removes cell debris, does an excellent job of removing RNases (and are probably the best RNase inhibitors). However, for rare samples or RNA purified from a heavily contaminated source (such as pancreatic tissues), make sure the sample is well-protected, with a chemical or enzymatic RNase inhibitor such as the Riboguard BEFORE using the MasterPure RNA Purification Kit. After the purification, the RNA is very stable. Storing at -80°C will also work well.

How is the MasterPure Kit different from Qiagen Kits or Phenol Extraction methods?

No columns, no resin, no organics— proprietary buffer composition and precipitations effect purification

I see you also have a MasterPure DNA Purification Kit for Blood. How is this different from the other MasterPure Kits?

It is specific for use with blood.

I want to isolate DNA from whole blood. Which MasterPure kit should I use?

MasterPure DNA Purification Kit - for Blood Use: Catalog # MG71100

I want to isolate RNA from blood. Can I use the MasterPure RNA Purification kit for this?

Yes.

Do you have any published references for the MasterPure Kits (other than what's in your Forum)?

Yes, there are several that have been published. Ask Hank or Fred for the references.

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Check your sample size and your conditions for the lysis and protein precipitation step. Extend the Proteinase K/lysis step to as long as 30 minutes as needed.

The DNA/RNA isn't very pure by 260/280 when I'm done. What can I do about this?

Re-do the MPC Protein Precipitation steps. This should remove any residual proteins.

I lost my DNA/RNA after ethanol precipitation. What happened?

Likely the pellet was washed away during the 70% ethanol wash.

My DNA/RNA pellet is still “dirty” after MPC Protein Precipitation reagent steps. How can I clean up the DNA/RNA when this happens?

Repeat the MPC protein precipitation step.

I tried to quantitate my DNA by OD260 but the reading seems very high. Why is this? Is there another way to accurately quantitate my DNA or RNA?

The high OD260 reading is from residual degraded oligonucleotides and NMPs and dNMPs. Use Fluorimetry and a DNA-specific dye (such as Hoechst 33258), which is much more accurate.