

Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format)

Norgen's Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format) provides a fast, reliable and simple procedure for isolating circulating DNA from various amounts of plasma/serum ranging from 400 μ L to 2 mL. Free-circulating nucleic acids in plasma and serum have the potential to provide biomarkers for certain cancers and disease states, and include tumor-specific extracellular DNA fragments and fetal DNA in maternal blood. These free-circulating nucleic acids are usually present as short fragments of less than 1000bp (DNA)



Norgen's Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format) provides an efficient method for the purification of these fragmented free-circulating DNA from human plasma or serum. Purification is based on the use of Norgen's proprietary resin as the separation matrix. The kit is able to isolate all sizes of circulating DNA. The slurry format provides an advantage over other available kits in that it does not require extension tubes for the purification of free-circulating DNA from large sample volumes. DNA can be isolated from either fresh or frozen samples using this kit. Typical yields of free-circulating DNA purified will vary depending on the input sample (1-100ng/mL circulating DNA in human plasma), with more concentrated samples tending to yield more free-circulating nucleic acids. Preparation time for a single sample is less than 45 minutes. The purified plasma/serum free-circulating DNA is eluted in an elution solution that is compatible with PCR, qPCR, methylation-sensitive PCR and Southern Blot analysis.

Kit Specifications			
Minimum Plasma/Serum Input	400 μ L	Elution Volume	100 μ L
Maximum Plasma/Serum Input	2 mL	Time to Complete Purification	< 45 minutes

Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format) Benefits

Fast and easy processing	Rapid format allows for the processing of multiple samples in less than 45 minutes.
Versatile plasma and serum input volume	Isolate circulating DNA from 400 μ L - 2 mL of plasma and serum samples. No requirement for extension tubes when processing larger sample volumes.
Concentrate circulating DNA	Circulating DNA present in input volumes of 400 μ L - 2 mL are concentrated into a final elution volumes of 100 μ L.
Isolate inhibitor-free DNA	Purified DNA can be used in a number of sensitive downstream applications including PCR, qPCR, methylation-sensitive PCR and Southern Blot analysis.

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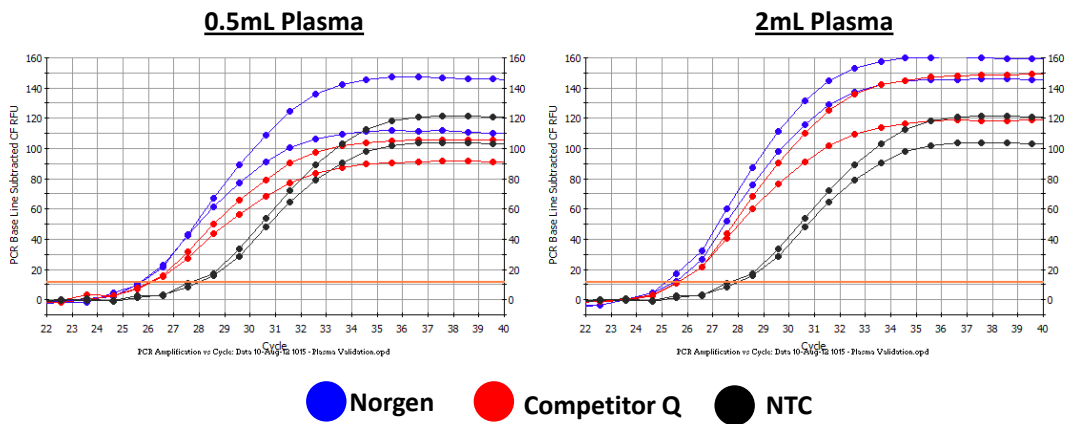


Figure 1. Detection of Human 5S Gene from 0.5mL and 2mL of Plasma. Norgen's Plasma/Serum Circulating DNA Purification Midi Kit was compared to a leading Competitor's kit for their ability to isolate high quality plasma DNA ready for sensitive downstream applications such as qPCR. Norgen's samples (blue) were found to amplify sooner than competitor Q's samples (red), when both 0.5mL and 2mL of plasma were processed, indicating a higher recovery of high quality circulating DNA present in Norgen's samples.

Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format) Contents:

1. Lysis Buffer D
2. Slurry A1
3. Binding Buffer B
4. Wash Solution A
5. Binding Buffer C
6. Elution Buffer B
7. Mini Filter Spin Columns
8. Collection Tubes
9. Spin Columns Inserted into Collection Tubes
10. Elution tubes (1.7 mL)
11. Product Insert

Customer-Supplied Reagents and Equipment

- Benchtop microcentrifuge
- Centrifuge with a swinging bucket capable rotor capable of at least 2000 RPM
- 96-100% ethanol
- 60°C incubator
- 15 CC tubes

Storage Conditions

All buffers should be kept tightly sealed and stored at room temperature (15-25°C) for up to 1 year without showing any reduction in performance.

Shipping Conditions

The Plasma/Serum Circulating DNA Purification Midi Kit (Slurry Format) is shipped at room temperature.

Cat #	Description	Quantity
51200	Plasma / Serum Circulating DNA Purification Midi Kit (Slurry Format)	20 preps