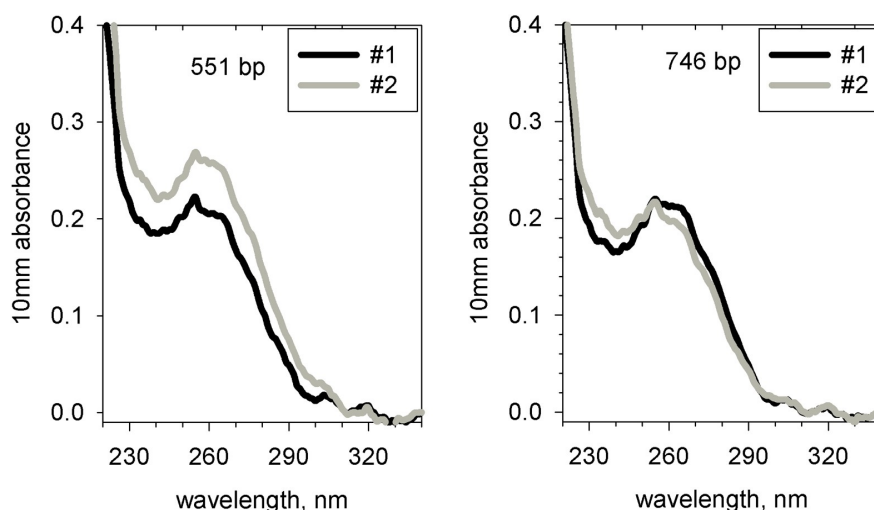




Argylla nanoPurify Kit removes fluorescent dye from Lonza FlashGel™ recovery well DNA

Argylla Technologies nanoPurify Kit is an invaluable tool to remove fluorescent dye from Lonza recovery well DNA samples which may interfere with quantifying DNA concentration either by PicoGreen or by UV absorbance as measured by the NanoDrop spectrophotometer. The Argylla system is excellent for separating larger pieces of DNA from smaller fragments of nucleic acids that tend to inhibit PCR. Our product is proven trustworthy with very small samples.

Two representative NanoDrop spectra of the two PCR amplicons are shown.



- Lonza recovery gels were used to separate PCR amplicons from dNTPs, template DNA, primers, and Taq polymerase.
- Argylla PreParticles were used to separate the fluorescent dye from the recovered amplicon DNA.
- This removed the fluorescent probe so that the concentration could be measured using PicoGreen (Molecular Probes, Eugene, OR).
- 1-2ng aliquots of this purified DNA were spiked into Fresh Lonza recovery buffer as well as recovery buffer that had been allowed to mix with running buffer in the center recovery wells as part of simulated electrophoresis. The average percent yield when the four groups (fresh recovery buffer, simulated used, 551bp amplicon, 746bp amplicon) were combined is $90\% \pm 36\%$. Slight variations in measurements are lightly to be due to evaporation in the dry climate of Arizona.

The Lonza/Argylla procedure is simple and fast.

Lonza© FlashGel™ procedure

1. Load samples in top tier of wells
2. Run until band of interest almost reaches the second tier of wells (2-5 minutes)
3. Stop the run and add FlashGel™ Recovery Buffer. Start and run band into the well.
4. Stop the run and remove the DNA from the well(s).

Argylla procedure to remove fluorescent dye

5. Add Argylla PrepParticles to samples collected from Lonza recovery wells
6. Add ethanol to precipitate the DNA onto the particles
7. Centrifuge to collect particles and DNA
8. Elute DNA

For exact instructions please refer to the [Flourescent Dye Removal from Lonza Samples Protocol](http://www.argylla.com/protocols) at www.argylla.com/protocols

Are there other EtOH soluble organic molecules that you would like to separate from your DNA? If so, contact Argylla Technologies to help you modify our protocol to suit your needs.

For more information, contact Dr. Barbara Leinweber, Ph.d at bleinweber@argylla.com or call 1-800-234-6642.