Genomics & Analytical Services | Next Generation Sequencing

Amplicon-EZ Best Practices Checklist

- [ ] **Optimize your PCR** to eliminate non-specific products.
- [ ] **Run a gel** to verify that amplicons are 150-500 bp in size.
- [ ] **Purify the PCR products** to remove primers and dNTPs. You can use DNA-binding beads/columns, enzymatic cleanup, or gel purification.
- [ ] **Quantify the DNA using a double-stranded DNA method** such as Qubit™ or PicoGreen™. Note that the NanoDrop cannot distinguish between dsDNA and ssDNA (oligos and dNTPs).
- [ ] **Normalize the concentration to 20 ng/µL.** Azenta Life Sciences does not adjust the concentration prior to library preparation.
- [ ] **Include at least 500 ng** of double-stranded DNA per sample.
- [ ] **Prepare samples** in clearly labeled microcentrifuge tubes with the sample name as it appears on your order form for projects with <36 samples. For larger projects, please use 96-well PCR plates and specify well positions on your order form.
- [ ] **Provide a gel image** of your amplicons. You can upload an image to the online order form.
- [ ] **Print out your order receipt** and include it with your samples.
- [ ] **Submit your samples to Azenta Life Sciences** using one of the following options:
    - **Drop off samples in an Azenta dropbox**. Place the samples and order receipt together in a Ziploc bag at room temperature. In order to be included in the weekly processing cycle that begins on Wednesday, US customers must submit samples prior to the dropbox deadline on Tuesday (Monday for US customers on the West Coast). If you miss the dropbox deadline, feel free to ship samples directly to our New Jersey facility for receipt no later than 3 p.m. ET on Wednesday. To locate a dropbox near you, please contact us.
    - **Ship samples directly to our facility**. Use the shipping address listed on the order receipt. You can ship at room temperature or on blue/dry ice.

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