

310 Genetic Analyzer Pre-installation Guide

Thank you for choosing **ABI SCIENTIFIC** to refurbish your ABI PRISM 310 Genetic Analyzer. You should be excited to know that your instrument will exceed Applied Biosystems standards and specifications and our service includes a **ABI SCIENTIFIC** warranty when the ABI 310 is installed by a **ABI** representative. This document is intended to help guide your ABI 310 set-up and insure a trouble free installation.

Your ABI 310 will arrive at your lab with most of the items necessary to perform the standard **ABI SCIENTIFIC** installation. Please download the ABI PRISM 310 Genetic Analyzer [Site Prep Guide](http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041811.pdf) p/n 903558 from the Applied Biosystems website at: http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041811.pdf

The **ABI SCIENTIFIC** installation takes about 1-1½ days. Please make sure you have read the [Site Prep Guide](#). Your lab personnel will need to unpack the ABI 310 from the crate and lift onto the lab bench. Use caution and proper lifting techniques the sequencer can weigh up to 250lbs. **ABI SCIENTIFIC** will not be responsible for injuries associated with lifting or handling the ABI 310.

It is very important to check that the power cord shipped with you 310 fits into your wall receptacle. If the power cord does not fit notify **ABI SCIENTIFIC** immediately. If you are using 110-120V your plug will look like figure 1 below it does **NOT** fit standard outlets, your outlet must look the same as the one in figure 2.



Figure 1



Figure 2

Another note about power: the ABI 310 is very sensitive to voltage spikes and fluctuations. It is recommended to put the ABI 310 on a UPS/voltage stabilizer.

Prior to the installation you should read over the ABI PRISM 310 users manual and choose what type of kits (chemistry) you want to use for your ABI PRISM 310. [Promega](#) and [Applied Biosystems](#) both sell ABI 310 sequencing/fragment

analysis kits and matrix standards. If you choose to use the Promega platform you should purchase the necessary matrix and size standards from Promega, and order the appropriate polymer, HI-Di Formamide, buffers, reagents, and capillaries separately (see table 1-7 of *Site Prep Guide*). The [Gel Company](#) sells buffers and capillaries. If you choose the Applied Biosystems reagent kit order the appropriate installation kit (genotyping or sequencing).

You will also need to decide if you want to use a 48 or 96 well sample tray format. Inform JBI which format you want with your 310.

JBI SCIENTIFIC ABI 310 installation/packing kit includes:

Applied Biosystems p/n	Description
4303032	ABI PRISM® 310 Operator Training on computer.
4303520	Gel Block
5402	Buffer jar, 9-mL
5404	Capillary fitting
5632	Drip Tray
5914	Electrode (qty 1)
4316489	Black Box Serial Cable
4304471	1.0 mL syringe with seals
604076	Waste fitting assembly
603796	Waste vial assembly
401955	Genetic Analysis buffer vials
402865	Genetic Analyzer Septa 0.5 ml
401957 similar p/n	Genetic Analyzer Sample Tubes 0.5 ml
N/A	Capillaries (qty 2) 61 cm or 47 cm

It is a good idea to have an extra syringe in case you develop a syringe leak. You can only order the syringe from Applied Biosystems (p/n: 4304471).

If you have any additional questions concerning your ABI PRISM 310 installation please contact Jason Blumenkamp at jason@jbiscientific.com or telephone +1.936.294.0521.