

Easily automate the QIAGEN® QIAseq® FX DNA Library Kit on the epMotion®* Liquid Handler

For highly reproducible and ready to sequence libraries



Eppendorf has developed ready-to-run protocols for commonly used library preparation kits like the QIAGEN® QIAseq® FX DNA Library Kit for time-consuming and error-prone steps to be automated.

Product features of the epMotion®

- > 14 SLAS/ANSI plus small position for special reagent reservoir rack (3 reservoirs)
- > Maximum pipetting accuracy from 0.2 µL to 1 mL
- > Gripper tool for transport of labware and stacking of up to 5 plates on deck
- > Automatic tool exchange can be easily programmed in the epBlue software
- > Integrated LEDs for visual feedback of system status like idle, run in progress or run finished

Your advantages

- > **Reproducible results:** Automated pipetting eliminates time-consuming library prep steps and human error to generate highly reproducible and sequencer ready libraries
- > **Improved productivity:** Ready-to-run methods, streamlined workflow and automatic tool exchange guarantees uninterrupted library preparation and minimizes run-to-run variability
- > **Increased throughput:** Process up to 96 samples in less than 243 minutes (~ 4 hours) without compromising library quality
- > **Walkaway configuration:** Straight-forward and fully automated methods reduce hands-on time and potential handling errors
- > **Enhanced safety:** Fully autoclavable dispensing tools, optional UV and air filter for user and sample safety

Workflow Overview



Figure 1: Automated workflow for the QIAGEN® QIAseq® FX DNA Library Kit (96) on the epMotion® 5075t. Steps shown in brown can be automated on the epMotion® Liquid Handler.

Protocol Overview

epMotion 5075t

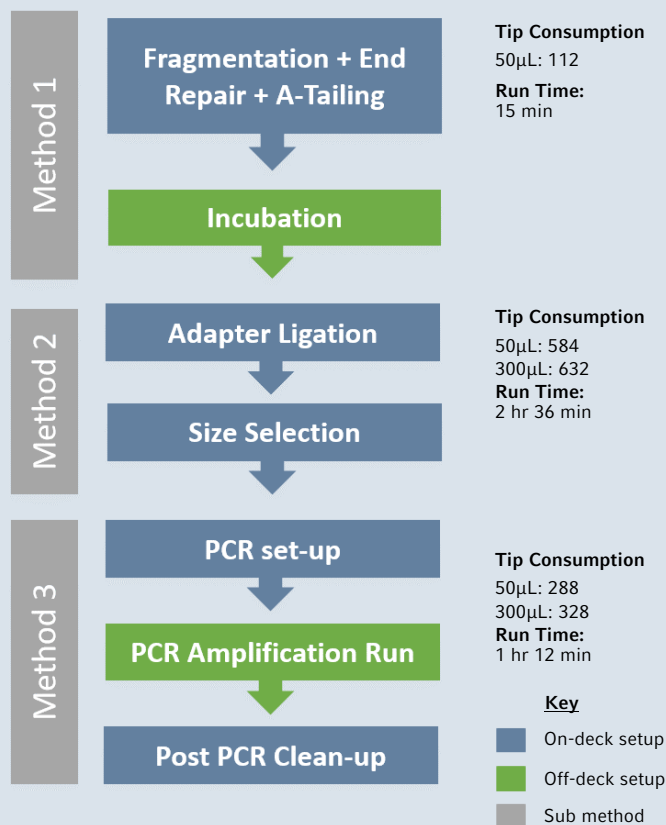


Figure 2: Library preparation steps and methods that can be automated for the QIAGEN® QIAseq® FX DNA Library Kit (96) on the epMotion® 5075t.

Worktable Configuration

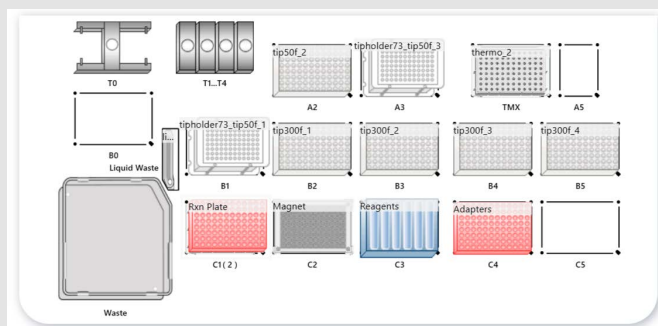


Figure 3: Worktable layout for processing Method 2 on the epMotion® 5075t.

Application Data

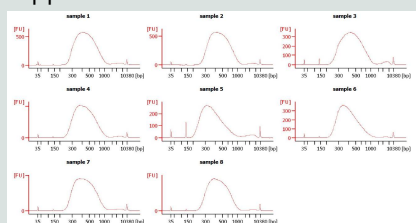


Figure 4: QC result for 8 library samples using BioAnalyzer.¹

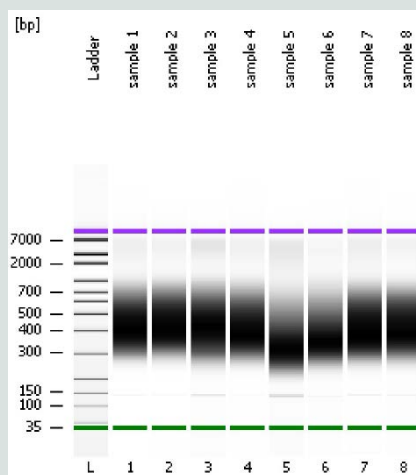


Figure 5: QC result for 8 library samples using BioAnalyzer.¹

References

[1] Eppendorf Application Technologies, November 2017

*Developed on a predecessor model, but thanks to the migration feature, this method can easily be transferred to the newest generation of epMotion®

Contact your sales specialist for more information:

www.eppendorf.com/automation

Eppendorf®, the Eppendorf Brand Design and epMotion® are registered trademarks of Eppendorf SE, Germany. QIAGEN® and QIAseq® are registered trademark of QIAGEN N.V. All rights reserved, including graphics and images. Copyright © 2024 by Eppendorf SE