

4°C

end repair & A









Input amount	Number of amplification cycles for WGS to achieve 4 nM* (if using truncated Universal Adapter & KAPA UDI Primer Mixes)	
500 ng*	3 - 4 cycles	
250 ng	3 - 5 cycles	
10 ng	5 – 7 cycles	
1 ng	10 – 12 cycles	

**Note:** When using incomplete, or truncated, adapters (such as KAPA Universal Adapter & KAPA UDI Primer Mixes), a minimum number of amplification cycles (3) are required to complete adapter sequences for the next step in the process (target capture or sequencing), irrespective of whether a sufficient amount of library is available after ligation. The number of cycles needed depends on the specific adapter, downstream application amplification primer design.

\* Based on sequencing recommendations, 4 nM is the minimum starting concentration to proceed with sequencing. Users requiring concentrations >4 nM can adjust the number of amplification cycles in 2 cycle increments until the target concentration is achieved. This may require optimization. Note: increasing cycle numbers ultimately decreases the library complexity by increasing the duplication rate.

Input into library construction (Full length Adapters)	Number of cycles required to generate	
	100 ng library	1 µg library
1 µg	0	0 – 1
500 ng	0	2 - 3
250 ng	0 - 1	3 - 5
100 ng	0 - 2	5 - 6
50 ng	3 - 5	7 - 8
25 ng	5-6	8 - 10
10 ng	7 - 9	11 - 13
5 ng	9 - 11	13 - 14
2.5 ng	11 - 13	14 - 16
1 ng	13 - 15	17 – 19

library amplification



Data on file. For Research Use Only. Not for use in diagnostic procedures.



optional size selection 1X post-amp cleanup

target capture or sequencing



For Research Use Only. Not for use in diagnostic procedures. KAPA, KAPA HYPERPLUS and KAPA HYPERPREP are trademarks of Roche. All other product names and trademarks are the property of their respective owners. © 2023 Roche Sequencing Solutions, Inc. MC--00968 12/23