

Overview – PacBio® Nanobind® CBB HMW DNA extraction protocols

Sample type	Starting material	Samples input	Workflow time	Procedure & checklist
Mammalian cultured cells	Suspension cell culture	1 x 10 ⁶ –5 x 10 ⁶ diploid human cells	~1 hr.	Extracting HMW DNA from cultured suspension cells (<u>103-394-500</u>)
	Adherent cell culture	1 x 10 ⁶ –5 x 10 ⁶ diploid human cells	~1 hr.	Extracting HMW DNA from cultured adherent cells (102-573-600)
Blood	Human whole blood	200 μL	~1 hr.	Extracting HMW DNA from human whole blood using Nanobind kits (102-573-500)
	Nucleated red blood cells (nRBCs)	2.5-20 μL	~1 hr.	Extracting HMW DNA from nucleated red blood cells (102-574-000)
Cultured bacteria	Gram-negative bacteria	5 x 10 ⁸ -5 x 10 ⁹ bacterial cells	~1 hr.	Extracting HMW DNA from Gram-negative bacteria (102-573-800)
	Gram-positive bacteria	5 x 10 ⁸ -5 x 10 ⁹ bacterial cells	~1 hr.	Extracting HMW DNA from Gram-positive bacteria (102-573-900)

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