

For example yield results, see the PanDNA kit [brochure](#) and [guide & overview](#).

Sample type	Starting material	Samples input	Workflow time	Procedure & checklist
Blood	Human whole blood	200 µL	~1 hr.	Extracting HMW DNA from human whole blood ( <a href="#">102-573-500</a> )
	Nucleated red blood cells (nRBCs)	2.5–20 µL	~1 hr.	Extracting HMW DNA from nucleated red blood cells ( <a href="#">102-574-000</a> )
	Human whole blood with RBC lysis	400 µL	<1.5 hrs.	Extracting HMW DNA from human whole blood with RBC lysis ( <a href="#">103-377-500</a> )
Animal tissue	Diverse tissue types	2–100 mg	~2.5 hrs.	Extracting HMW DNA from animal tissue ( <a href="#">102-574-600</a> )
Insect tissue	Insect whole body or segment	>20 mg	~2.5 hrs.	Extracting HMW DNA extraction from insects ( <a href="#">102-377-400</a> )
Plant tissue	Isolated plant nuclei	0.25–5g	~1.5 hrs. <sup>1</sup>	Extracting HMW DNA from plant nuclei ( <a href="#">103-378-200</a> )
Mammalian cultured cells	Suspension cell culture	1 x 10 <sup>6</sup> –5 x 10 <sup>6</sup> diploid human cells	~1 hr.	Extracting HMW DNA from cultured suspension cells ( <a href="#">103-394-500</a> )
	Adherent cell culture	1 x 10 <sup>6</sup> –5 x 10 <sup>6</sup> diploid human cells	~1 hr.	Extracting HMW DNA from cultured adherent cells ( <a href="#">102-573-600</a> )
Cultured bacteria	Gram-negative bacteria	5 x 10 <sup>8</sup> –5 x 10 <sup>9</sup> bacterial cells	~1 hr.	Extracting HMW DNA from Gram-negative bacteria ( <a href="#">102-573-800</a> )
	Gram-positive bacteria	5 x 10 <sup>8</sup> –5 x 10 <sup>9</sup> bacterial cells	~1 hr.	Extracting HMW DNA from Gram-positive bacteria ( <a href="#">102-573-900</a> )

<sup>1</sup>Upstream plant nuclei prep isolation procedures (e.g., [102-574-900](#) or [102-574-800](#)) typically take ~3 hours to complete.