

Target Starting Quantities for Extracting DNA

- It's critical to know the extraction efficiency of your extraction method to accurately estimate the input requirement in order to reach the amounts of gDNA and concentrations outlined in the Service Sample guidelines.
- The minimum number of input T cells is 1,000. For more information see our Service Sample FAQs (immunoseq.com/knowledge-center/immunoseq-assays).
- For optimal performance, a gDNA concentration of at least 10 ng/μL is recommended. Submitting gDNA at a concentration less than this level limits our ability to troubleshoot issues.

TARGET STARTING QUANTITIES

Sample type	T cells		B cells	
	Survey ¹	Deep ¹	Survey	Deep
Sorted cells	3,000–100,000 cells	100,000–200,000 cells	3,000–100,000 cells	100,000–200,000 cells
Peripheral blood mononuclear cells	5,000–250,000 cells	1,000,000 cells	50,000–1,500,000 cells	1,500,000–4,500,000 cells
Whole blood	0.25 – 0.5 mL	2.0 mL	*	*
Bone marrow mononuclear cells	50,000–1,500,000 cells	1,500,000–4,500,000 cells	50,000–1,500,000 cells	1,500,000–4,500,000 cells
Lymphoid tissue	5 – 10 mg	10 – 20 mg	5 – 10 mg	10 – 20 mg
Non-lymphoid tissue	10 mg	10 – 20 mg	10 mg	10 – 20 mg
Formalin-fixed, Paraffin-embedded	5 x 5 micron scrolls	5 x 10 micron [†] scrolls	5 x 5 micron scrolls	5 x 10 micron [†] scrolls
Bone marrow aspirate	1 mL		1 mL	

¹ Survey and Deep are names to represent the breadth of the immune repertoire assayed (e.g. number of T cells); the names do not represent the quality of data or results generated.

* Due to low composition of B cells in whole blood, we do not recommend using whole blood as a sample type for most B-cell projects.

[†] FFPE Deep resolution is not appropriate for most projects.

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