



## **Nucleon BACC1 Genomic DNA Extraction Kit**

**RPN8501      25006716**

for 50 preparations from 1 ml of whole blood or 1 to 3 x 10<sup>6</sup> cultured cells.

Nucleon BACC system rapidly extracts high molecular weight DNA from whole blood and cultured cells.

- Developed for rapid extraction of high-quality, high molecular weight genomic DNA from whole blood and cell cultures
- Recovers DNA ranging in size from 23 to 250 kbp as determined by pulse-field gel electrophoresis
- Features a phenol-free protocol requiring only 30 min to complete

### **Nucleon BACC system, genomic DNA isolation kit**

There are many methods of purifying, extracting or isolating genomic DNA, and illustrate Nucleon BACC Genomic DNA Extraction Kits are particularly well-adapted to the need for standardization when analyzing multiple routine samples, such as blood, cell culture, and tissue samples in core facilities.

Nucleon BACC Genomic DNA Extraction kits use a proprietary resin which is added following cell lysis, deproteinization with sodium perchlorate, and a single chloroform extraction, for a phenol-free protocol. The combination of purity and high molecular weight makes the DNA from Nucleon BACC kits suitable in multiple downstream molecular biology applications, including whole genome amplification prior to whole genome sequencing, or NGS sequencing.

Table 1: Typical yields and purities.

Sample		Yield µg DNA/mg tissue	mean purity A 260/280
Nucleon			
BACC1/2/3	Blood (10 ml)	370–440	1.8
	HeLa cells (10 <sup>6</sup> cells)	12	1.8
Nucleon HT			
	Mouse tail per cm*	70–200	1.9
	Xiphisternum	1.6–1.9	1.6

\* yield will vary depending on the section of tail used. 1 cm of tail equals approximately 60 mg of tissue.

DOMINIQUE DUTSCHER SAS