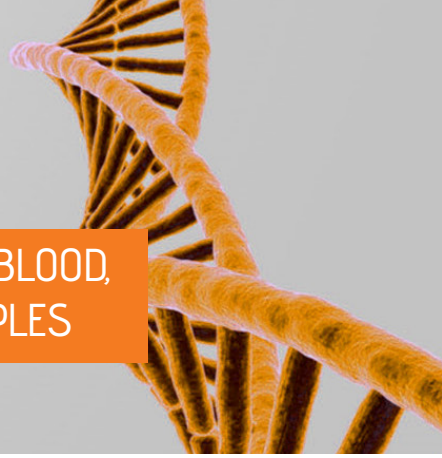
Clean Blood & Tissue DNA Kit

MAGNETIC BEAD BASED DNA ISOLATION FROM BLOOD, BUFFY COAT, SWABS, SALIVA AND TISSUE SAMPLES



Description

The Clean Blood & Tissue DNA Kit is based upon our proprietary magnetic beads based system to extract high quality genomic DNA. It can be used for the genomic DNA isolation from 1-200 µL of fresh or frozen whole blood, buffy coat, saliva or up to 10 mg tissue. The presence of anticoagulants such as Citrate, EDTA and Heparin does not affect the isolation efficiency.

The removal of all heating steps for the extraction of DNA from blood allows the Clean Blood & Tissue DNA Kit to be easily implemented on liquid handling workstations (e.g Dynamic Devices, Beckman, Hamilton, Tecan, Caliper, Perkin Elmer, Agilent and Eppendorf).

Our Clean Blood & Tissue DNA Kit enables the isolation of high quality DNA, suitable for direct use in most downstream applications, such as PCR, qPCR and Next Generation Sequencing.

Procedure

Genomic DNA is isolated from the lysed blood or tissue samples in one step by binding on CleanNA particles surfaces. The CleanNA magnetic particles are separated from the lysates by using a magnetic device. Following a few rapid wash steps to remove trace contaminants, the purified DNA is eluted from the CleanNA particles for downstream applications using an Elution Buffer.

Downstream Applications

- NGS
- PCR [1)]
- qPCR
- Sanger Sequencing

Features & Benefits

- High quality DNA yield
- Excellent 260/280 and 260/230 ratios
- No heating steps required (blood protocol)
- Fast and efficient protocol
- Scalable solution for isolation from various sample volumes
- Adaptable to many automated liquid handling workstations on the market

Ordering Information

Catalog #	Product Description	Preps
CBT-D0096	Clean Blood & Tissue DNA Kit	96
CBT-D0384	Clean Blood & Tissue DNA Kit	384

1) The PCR process is covered by patents owned by Roche Molecular Systems, Inc., and F.Hoffman-La Roche, Ltd.

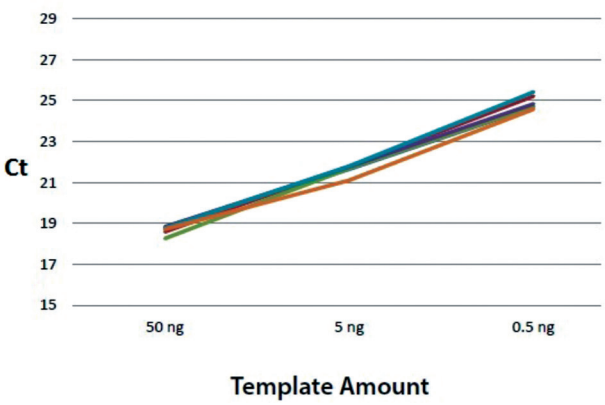
CLEAN NA

Coenecoop 75
2741 PH Waddinxveen
The Netherlands

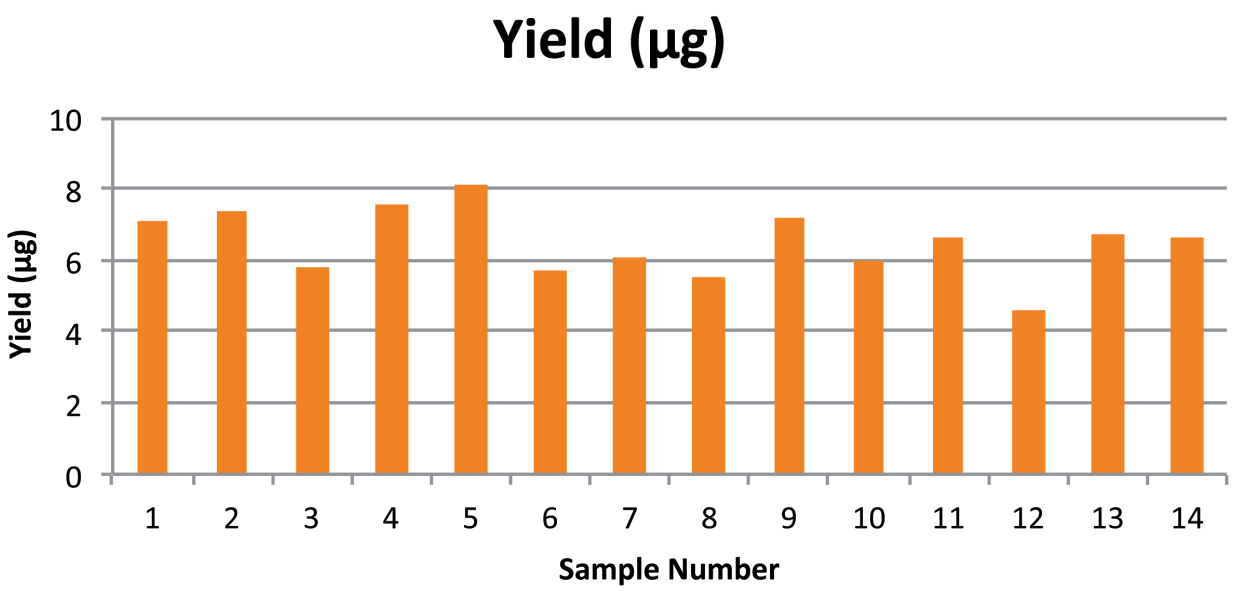
+31 (0) 182 22 33 50
+31(0) 182 22 33 98

info@cleanna.com
www.cleanna.com

Using the Clean Blood & Tissue DNA Kit and Company A's Genomic DNA isolation kit, genomic DNA was extracted from buccal swabs. For each sample, 10% of the extracted DNA sample was loaded on a 0.8% agarose gel.



Genomic DNA isolated from Whole Blood, using the Clean Blood & Tissue DNA Kit. Concentrations have been determined using the Denovix DS-11. Three different template amounts (50 ng, 5 ng and 0.5 ng) have been used in a 20 µL SYBR qPCR reaction. As shown by the Ct values, increasing by only three cycles per 10 fold dilution, the isolated genomic DNA is free of inhibition.



Genomic DNA isolated from 200 µL whole blood, extracted using the KingFisher Flex 96 instrument from Thermo Scientific. DNA yield has been determined by PicoGreen quantification.

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