

TECH NOTE NO. 1 INNUPREP BLOOD DNA MINI KIT

Fast and efficient isolation of genomic DNA from up to 400 µl whole blood

INTRODUCTION

The innuPREP Blood DNA Mini Kit is based on the innovative patented, low salt DC Technology. DC Technology stands for dual chemistry and combines chaotropic as well as nonchaotropic salts in the Lysis/Binding Buffer system at low ionic strength and concentration. Contrary to other kits available in the market, the innovative low salt concentration of this proprietary new chemistry does not inhibit the activity of enzymes like Proteinase K required in the initial lysis step. Therefore lysis takes place extremely efficient in short time. In addition, the DC Chemistry promotes a highly efficient binding of gDNA to a silica matrix resulting in highest recovery rates (yield) with best quality of isolated nucleic acids.

YOUR BENEFITS:

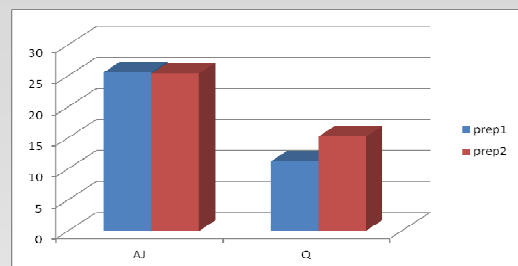
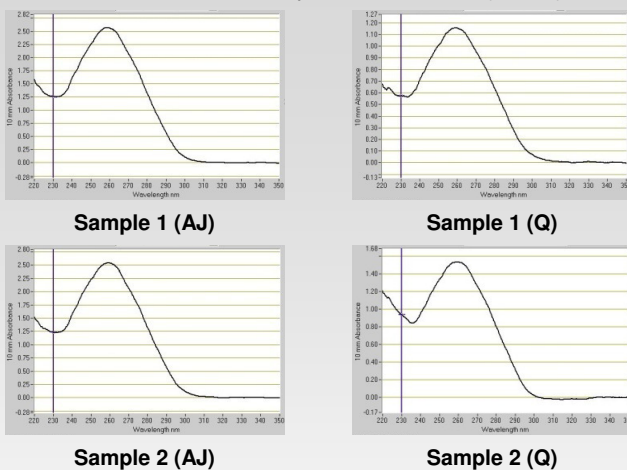
- Highly efficient sample lysis
- Suited for whole blood; fresh and frozen
- Fully compatible to common stabilizers like EDTA, citrate and heparine
- CE-IVD labelled
- True-max-sample promise: supplied reagents allow all reactions to be conducted at up to 400 µl sample volume
- Highest yields
- Ideal purity ($A_{260/280}$; $A_{260/230}$)

APPLICATION

Extraction of gDNA from 400 µl and 200 µl of whole blood samples stabilized with different anticoagulants in comparison to a gold standard kit (Supplier Q)

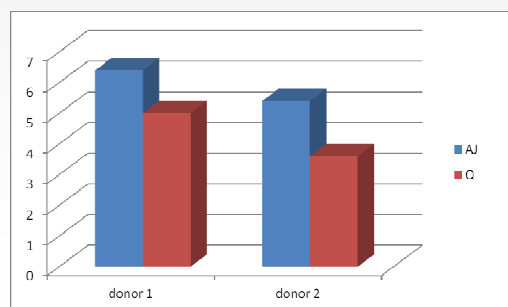
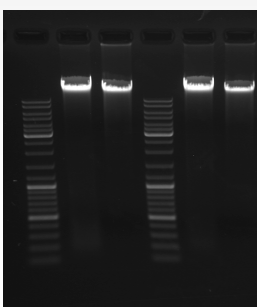
RESULTS

A. Isolation of DNA from 400 µl of whole blood (EDTA)



	$A_{260/280}$	$A_{260/230}$	Yield[ng/µl]
Sample 1 (AJ)	1.95	2.06	127.9
Sample 2 (AJ)	1.95	2.03	126.8
Sample 1 (Q)	1.82	2.01	57.6
Sample 2 (Q)	1.93	1.64	76.5

B. Isolation of DNA from 200 µl of whole blood (heparine)



In comparison to the market leader's product, both experiments A and B show much higher yield at ideal quality of isolated nucleic acids.

Lane 1 and 4: DNA ladder; Lane 2 and 5: AJ, Lane 3 and 6: Supplier Q

**CHALLENGE US TODAY
AND IMPROVE YOUR
SAMPLE PREPARATION!**

Expression and further use permitted with indication of source. Subject to changes in design and scope of delivery as well as further technical development!

Publisher:

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