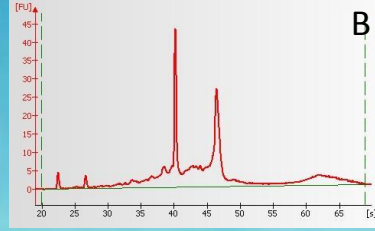
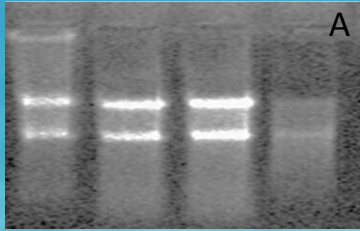
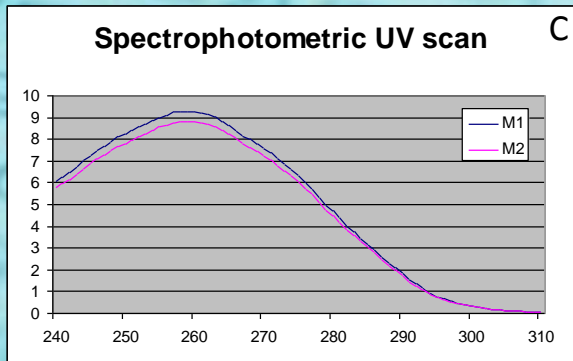


RNA Quality Control (QC) testing



(A) Total RNA extracted from blood and electrophoresed through a 1,2% formaldehyde agarose gel stained with ethidium bromide.
(B) Electropherogram peaks obtained by capillary electrophoresis on 2100 Bioanalyzer (Agilent Technologies) testing RNA integrity.



(C) Spectrophotometric UV scan image obtained when testing RNA purity and concentration by a scanning UV measurement (Nanodrop spectrophotometer).

**INTEGRATED
SYSTEMS
ENGINEERING
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MILAN – ITALY**



**ISENET-USA LLC
PHILADELPHIA, PA - USA**

BIOTECHNOLOGY & BIOENGINEERING



**Automatable and rapid DNA/RNA
extraction from Human Whole
Blood using silica-based matrix**



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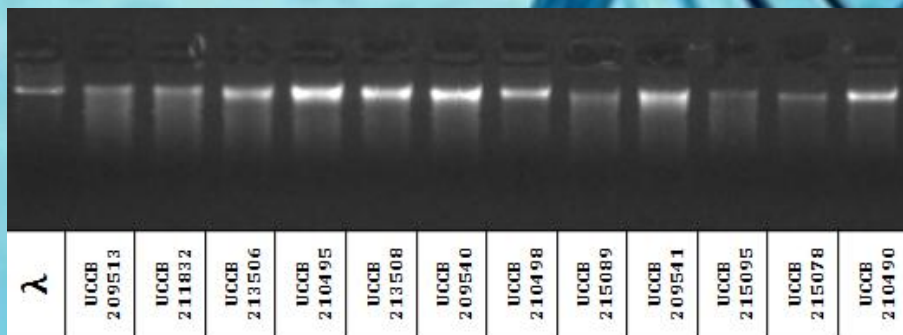
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Procedure for purifying DNA from different biological sources using a silica-based method developed by ISENET.

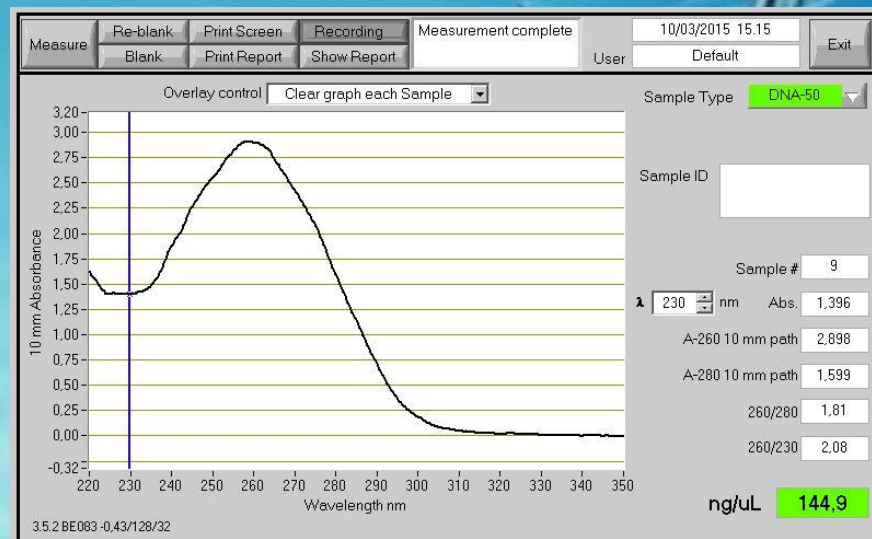
Unique features of the protocol:

- 1- Soluzione G stabilised Nucleic acid in whole blood and buffy-coat facilitating blood transportation at Room Temperature;
- 2- Scalable procedure use 50-1000 μ L of whole blood;
- 3- Rapid: it can extract nucleic acids from 24 samples in less than 1h;
- 4- Yields (30-50 μ g);
- 5- Pure and high-quality nucleic acids.

Quality control performance

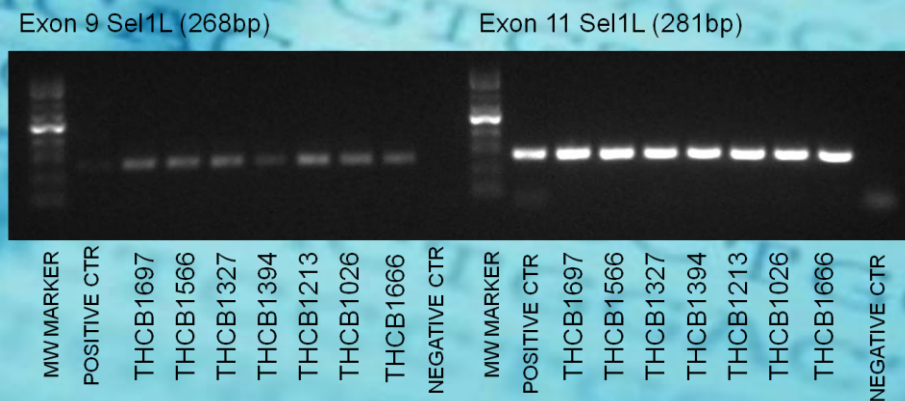


Total DNA extracted from whole blood and electrophoresed through a 0,8% agarose gel stained with ethidium bromide.



The samples are quantified by Nanodrop ND-1000 UV-VIS Spectrophotometer (NanoDrop Technologies).

DNA amplification with standard PCR



Randomly selected DNA products with the following sample codes:THCB1697, THCB1566, THCB1327, THCB1394, THCB1213, THCB1026 and THCB1666 were tested for PCR.