

Test Item Information Sheet (TIIS)

"DNA Quantification and Purity" 2011 Scheme

This sheet contains all information on DNA TEST ITEM that you should be aware of to conduct the above mentioned Scheme. Please read carefully before any operation and/or test on the sample provided.

TEST ITEM DESCRIPTION

- Source material: human blood.
- Method of preparation: DNA extraction through magnetic bead method.
- Current medium: TE buffer (10 mM Tris HCl, volume of 50 μ L, pH 8.0 (7.8-8.2)).
- Date of preparation and any lot number (if applicable): 15 September 2011.
- Method used for value assignment: spectrophotometric consensus by ISO17025/CLIA accredited laboratories, according to *The International harmonized protocol for the proficiency testing of analytical chemistry laboratories*, IUPAC technical report.

INSTRUCTIONS TO PREPARE TEST ITEM FOR TESTING

- No Processing is required at receipt of Test Item.
- Any storage requirement between receipt and testing date: Store at room temperature (18-24°C). Testing should be performed within 1 week of receipt.
- Temperature required to perform the testing: room temperature (18-24°C).
- Any step required/recommended for testing: dilution may be required for certain test items (this will have to be determined by the participant laboratory).
- Any factor that may impact the testing negatively: high/low concentration of Test Item.

PARTICULAR HANDLING/SAFETY REQUIREMENTS

- Potential risks of Test Item: exempt of infectious risk.
- Individual protection equipment required: standard laboratory (laboratory coat, gloves).
- In case of puncture or cuts: Abundantly wash with water and then disinfect during 10 minutes.
- In case of projection in the eye: Abundantly wash with water or physiologic serum during 5 minutes.
- In case of projection on the mucous membranes and skin: Wash with water.
- Measures to take in case of accidental dispersion: Pulverize disinfectant and clean the concerned surface.
- Waste elimination procedures: Waste generated by healthcare activities, to eliminate in incinerable plastic containers.

SCHEME SPECIFICATIONS

- For each test item (tube A and tube B): **please measure DNA concentration (ng/ μ L) and 260/280 ratio (if your method allows).**
- How to test your samples: please test the test items following your usual routine testing method(s).
- You will be asked to report your results under the following methods: ***Spectrophotometry, Spectrofluorimetry, Microfluidic LabOnChip*** and ***Other***.
- Please be ready to enter the following additional information while reporting your results:
 - Spectrophotometry: type of instrument, measurement container/format (plastic cuvette, quartz cuvette, microspot, microplate or other)
 - Spectrofluorimetry: type of instrument, measurement container/format (cuvette, microplate, tube, other), fluorochrome (ADyNA 515, YOYO-1, Hoechst 33258, Hoechst 33342, Hoechst 34580, SYBR Green, EvaGreen, PicoGreen, Other), wavelength excitation (485, 352, 350, 392, 484, 500,491, other), wavelength emission (515, 461, 440, 521, 530, 509, 528, other).

- Microfluidic LabOnchip: type of instrument (Agilent Bioanalyzer, Biorad Experion, other), type of chip.
- Other: type of instrument, type of method.
- Equipment performance verification: please enter information on the dilution used (for each tube), the frequency of verification runs and the last verification date and results.

WHAT RESULTS AND HOW TO SUBMIT THEM

1. For each Test Item, **you must perform the assay only once** (according to your selected routine method), and submit only one test result.
2. Your results must be submitted online to the PT website www.kpmd.co.uk/isber/, using the login information (Participant Code, Login ID and password) provided to you via email after the registration to the DNA Scheme.
3. Please complete the questionnaire as accurately as possible, adding any relevant detail and comment in the appropriate comment section.
4. In case of doubts in the completion phase, please contact ISBER at +1 301 634 7949 (Mon-Fri 9am-5pm EST) (email PTISBER@asip.org).

TIMELINES FOR THIS SCHEME

Results submission	Data analysis & Report preparation	Reports available
By 18 NOV 2011	21 NOV 2011 - 31 JAN 2012	By 29 FEB 2012