

Test Item Information Sheet (TIIS)

“DNA Quantification and Purity” 2019_R1 Scheme

This sheet contains all the information on **DNA Test Items** that you should be aware of to conduct the above mentioned Scheme. **Please read carefully before performing any operation and/or test on the provided samples.**

Test Items Description

- Source material: Whole blood.
- Method of preparation: DNA extracted by a magnetic bead-based method.
- Medium: 10mM TrisHCl, pH 7.8 – 8.2, volume of 50 µL.
- Date of preparation and any lot number (if applicable): August 2019.
- Biological hazard: The source material has been tested negative for negative for HIV (ELISA and PCR), HCV (ELISA and PCR); Syphilis (ELISA), HBsAg (ELISA), HBV (PCR), HAV (PCR), Parvovirus B19 (PCR).
- Biosafety level: All operations have been conducted in a BSL 2 environment.
- Method used for value assignment: Consensus mean from Participants.
- Homogeneity and Stability information: Homogeneity and stability of the Test Items were controlled in September 2019 and were found to be compliant with the requirements of *The International harmonized protocol for the proficiency testing of analytical chemistry laboratories*, IUPAC technical report.

Instructions to Prepare the Test Items for Testing

- Processing required of Test Item: No processing is required at receipt of Test Item.
- Any storage requirement between receipt and testing date: Store at **-80°C**. Testing should be performed within 1 week of receipt.
- Required temperature 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).
If you plan to report results under the **Unchained Labs Lunatic** (previously Trinean spectrophotometer with cDROP Software), please ensure you have correct software protocol on your computer. Please contact to request the protocol at Service@trinean.com.
- Any factor that may impact the testing negatively: Imprecision in pipetting, evaporation.

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.

Schemes Specifications

- For each Test Item (Tube A, Tube B and Tube C): Please measure **DNA concentration (ng/μl)** and **DNA 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, Spectrofluorometry, Microfluidic Electrophoresis, Lunatic** (previously Trinean spectrophotometer) and **Other**. Find out more information in the Results Submission Guidelines (<http://www.ibbl.lu/ibbl-bioservices/biospecimen-proficiency-testing/>).
- 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).
 - Spectrofluorometry: 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 Electrophoresis: Type of instrument (Agilent Bioanalyzer, Biorad Experion, PerkinElmer Labchip GX, QIAGEN QIAxcel, other), type of chip.
 - Lunatic: Type of container (DropPlate S, DropPlate D+, other).
 - Other: Type of instrument, Method.
 - Please enter information on the dilution used (for each Test Item).
 - Equipment performance verification: Please enter information on the frequency of verification runs and the last verification date and results.

What and How to Submit

- For each Test Item, **you can perform the assay more than once per method** (according to your selected routine method), and submit more than one test result.
- Your results must be submitted online to the PT website <http://biospecimenpt.ibbl.lu/> using the login information (Laboratory Number and Password) provided to you via email after the registration to the "DNA Quantification and Purity" Scheme.
- Please complete the questionnaire as accurately as possible, adding any relevant detail and comment in the appropriate comment section.

Timelines

<i>Results submission</i>	<i>Data analysis & Report preparation</i>	<i>Reports available</i>
15 NOV 2019, <u>latest</u>	15 NOV 2019– 17 JAN 2020	28 FEB 2020

In case of doubts in the completion phase, please contact IBBL at ISBERPT@ibbl.lu