LUXEMBOURG INSTITUTE OF HEALTH | INTEGRATED BIOBANK OF LUXEMBOURG IBBL

Test Item Information Sheet (TIIS)

"DNA Integrity" Scheme [DNAI26]

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): June-July 2026.
- 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 will be controlled from July to August 2026 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).
- Any factor that may impact the testing negatively: Prolonged light exposure of reagents; DNA contamination of Test Item; Organic component contamination of Test Item; Prolonged exposure to room temperature 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: Wash thoroughly with water and then disinfect during 10 minutes.
- In case of contact with the eye: Wash thoroughly with water or physiologic serum during 5 minutes.
- In case of contact with the mucus membranes and skin: Wash thoroughly with water.
- Measures to take in case of accidental spillage: Use disinfectant and thoroughly clean the effected 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 integrity**.
- How to test your samples: Please test the Test Items following your **usual routine testing method**.
- You will be asked to report your results under the following methods: **Agilent TapeStation** (DIN)**, LabChip GX** assay (GQS), **Fragment Analyzer™** (GQN), **QIAxcel System** (DQN), **Other**.
- Please be ready to enter the type of instrument used while reporting your results under "Other".
- 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 results.
- Your results must be submitted online to the PT website http://biospecimenpt.ibbl.lu/ by employing the login credentials (User email and Password) used to create your account on the aforementioned PT platform.
- Please complete the questionnaire of the DNAI26R1 PT scheme as accurately as possible, adding any relevant detail and comment in the appropriate comment section. Please note that any data that could impact group assignment and alter the final evaluation even slightly, cannot be modified after data entry has been closed as ISO/IEC 17043 considers correct identification of methods and results as part of the participant's competence assessment.

Timelines

Results submission	*Data analysis & Report preparation*	*Reports available*
17 NOV 2026, **latest**	20 NOV 2026 – 31 JAN 2027	March 2027

In case of doubts in the completion phase, please contact LIH/IBBL at IBBLPT@lih.lu