Test Item Information Sheet (TIIS)

"RNA Integrity" Scheme [RNAI24]

This sheet contains all the information on RNA 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: Jurkat cell line.
- Method of preparation: RNA extracted by a silica-based method.
- Medium: RNase-free water, 50 μl.
- Date of preparation and any lot number (if applicable): July-August 2024.
- Biological hazard: The source material is BSL 1.
- 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 2024 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

- <u>Processing required of Test Item:</u> 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

- <u>Potential risks of Test Item:</u> Exempt of infectious risk.
- <u>Individual protection equipment required:</u> 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.
- <u>Measures to take in case of accidental spillage:</u> Use disinfectant and thoroughly clean the effected surface.
- <u>Waste elimination procedures:</u> Waste generated by healthcare activities, to eliminate in incinerable plastic containers.

100108 PT TIIS RNAI JUN24 Page 1 of 2

Schemes Specifications

- For each Test Item (Tube A, Tube B and Tube C): Please measure RNA 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 Bioanalyzer (RIN),
 Biorad Experion (RQI), Agilent TapeStation Systems (RINe), QIAxcel System (RIS), Fragment
 Analyzer™ (RQN), Caliper Life Sciences LabChip GX (RQS), Qubit™ 4 Fluorometer (RNA IQ) or Other
 (18S:28S ratio, RIN, SDV, RIS, RQN).
- 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/ using the login information (Laboratory Number and Password) provided to you via email after the registration to the "RNA Integrity" Scheme.
- Please complete the questionnaire as accurately as possible, adding any relevant detail and comment in the appropriate comment section.

Timelines

Results submission	Data analysis & Report preparation	Reports available
17 NOV 2024, <u>latest</u>	20 NOV 2024– 31 JAN 2025	March 2025

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

100108 PT TIIS RNAI JUN24 Page 2 of 2