Test Item Information Sheet (TIIS)  
“RNA Integrity” 2019_R1 Scheme

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)**: August 2019.
- **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 were controlled in August 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).
- **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**: 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**: Pulverise 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 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 (RIN*), QIAxcel System (RIS), Fragment Analyzer (RQN), Caliper Life Sciences LabChip GX (RQS) 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.
- Find out more information in the Results Submission Guidelines (http://www.ibbl.lu/ibbl-bioservices/biospecimen.proficiency-testing/).

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

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<th>Results submission</th>
<th>Data analysis &amp; Report preparation</th>
<th>Reports available</th>
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In case of doubts in the completion phase, please contact IBBL at ISBERPT@ibbl.lu