Instruction to External Quality Assurance (EQA) for G6PD Quantitative Test

1. Report Quality Control Sample (QC sample) Received

1.1 1.1 Upon sample receipt, immediately log in at < https:/g6pd.qap.tw/MIS_Ph/ > to report the QC sample arrival time as soon as QC sample arrived.

1.2 Report following informaions：

a) Time of receiving；

b) Sample Received Condition；

1.3 The online user instruction for the G6PD EQA MIS System is available at <https://g6pd.qap.tw/G6PD_Note_RH_Eng.htm>.

1.4 If you have not received the QC samples by 4 days after shipping, please contact us as soon as possible.

2. Storage

QC samples should be stored below -15°C upon arrival.

3. Assay Procedure

3.1 Open the vial carefully and add 0.5ml **lysing reagent** (the one your lab use).

3.2 Stand the vial on ice for 5 min, then shake gently until the lyophilized material is **totally** dissolved.

Note：Keep the dissolved hemolysate on ice and **use it as soon as possible.**

3.3 Use this dissolved QC material as the **hemolysate** for determination of both G6PD and hemoglobin directly.

3.4 The **hemolysate** should be assayed the same as patient samples in routine procedure run.

4. Report Results

4.1 Login the G6PD EQA MIS system < https:/g6pd.qap.tw/MIS_Ph/ > to report the QC results.

4.2 In order to facilitate the test results statistics, enter actual value. The system can not accept with> or < symbols, please check the test items must be accurate value. The units of test and the number of decimal places are set as follows:
a) G6PD value unit is U/g Hb, value units go in Tenths;
b) Hb value unit in g / dL, value units go in Tenths.

4.3 The reporting deadline of this survey is the 7 days after shipping.

4.4 If you want to make a correction after you have submitted the results, please fill the application form (<https://g6pd.qap.tw/pdf/R406010103G6Ren.pdf>) then email to <g6pd@pmf.tw>.

4.5 Report the result in time, the reporting deadline will not be extended.

5. Warnings

5.1 High temperature and high relative humidity may lead to a reduction in quality of QC samples.

5.2 All of the blood materials used to produce QC samples have been tested and were found negative for HBsAg, Anti-HCV, STS (RPR or TPPA), HIV-1/HIV-2/HIV-O Ab, HIV p24 antigen, and Anti-HTLV. However, presence of these or other infectious agents cannot be excluded absolutely and therefore the QC samples should be treated as potential biohazards during testing and must be disposed appropriately.

6. Application for Reissue of the QC Samples

6.1 If you find the QC samples was broken, please take a photo of the QC samples and email to QAP center immediately. The QAP center will re-send the QC samples as soon as possible.

6.2 Report the result in time, the reporting deadline will **not be extended**.

7. Notes

7.1 The homogeneity and stability of QC samples conform to the requirements of ISO17043:2023.

7.2 The individual laboratory report is confidential, will only be released to your laboratory and the authority concerned.

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