# Procedure for
# External Quality Control tubes

## Important

This document is applicable to the following versions of analysers:

- Yumizen H500 since v2.2
- Yumizen H550 since v3
- HELO 1 (Yumizen H1500 / H2500 v1.4)
- HELO 2 (Yumizen H1500 / H2500 v1.7)

To run an EQC tube on any other versions, please refer to your HORIBA customer representative.

REF:

# I. To run an EQC tube on Yumizen H500/H550

Follow the instructions of the user manual section « To Run an External Control Blood Sample ».

The **Analysis** and the **Analysis mode** of your EQC tube can be find in section Annex I.

# II. To run an EQC tube in rack mode on Yumizen H1500/H2500

If not already done, create a « predefined test » for your EQC tube (see section V)

Follow the instructions of the user manual section « To Run an External Control Blood Sample ».

If you have a T6000 track and if your rack has not been automatically routed, repeat the above instructions on all analysers.

If for any reason you are unable to pass your EQC in one or several analysers in rack mode, then follow the instructions of section III for these devices.

# III. To run an EQC tube in STAT mode (only Yumizen H1500/H2500)

Follow the instructions of the user manual section « To Run a Control Blood Sample in Stat Mode ».

The specific **Test**, **Mode** and **Sample Type** for your EQC tube can be find in Annex II.

If you don't find on screen the required **Sample Type**, follow instructions of section VI.

# IV. To recover the results

Follow the instructions of the user manual section « To Export Results ».

# V. To create a predefined test for you EQC tube

Follow the instructions of the user manual section « To Create an External Control Blood Sample ».

The specific **Test**, **Mode** and **Sample Type** for your EQC tube can be find in Annex II.

If you don't find on screen the required **Sample Type**, follow instructions of section VI.

# VI. To create a custom Analysis Profile (Sample Type)

Retrieve the information related to your EQC program in Annex III :

- The **Name** of the new profile to create.
- The initial **Sample Type** from which to start.
- The list of **Modifications** to be applied.

Follow the instructions of the user manual section « To Create an Analysis Profile », applying the elements above recovered.

# Annex I. EQC settings for Yumizen H500/H550

*Table 1 - UK NEQAS*

| EQC tube | Analysis | Analysis Mode |
|---|---|---|
| **FB** | CBC | EQC Control |
| **DL** | DIF | EQC Control |

*Table 2 – CAP*

| EQC tube | Analysis | Analysis Mode |
|---|---|---|
| **FH16** | DIF | EQC Control |

*Table 3 - EQAS*

| EQC tube | Analysis | Analysis Mode | |
|---|---|---|---|
| | | Yumizen H500 v2.2 | Yumizen H500 / H550 since v3 |
| **BC90** | CBC | EQC Patient | EQC Patient mode 1 |

*Table 4 - RIQAS*

| EQC tube | Analysis | Analysis Mode | |
|---|---|---|---|
| | | Yumizen H500 v2.2 | Yumizen H500 / H550 since v3 |
| **RQ9118** | CBC | EQC Patient | EQC Patient mode 1 |

*Table 5 - Biologie-Prospective*

| EQC tube | Analysis | Analysis Mode | |
|---|---|---|---|
| | | Yumizen H500 v2.2 | Yumizen H500 / H550 since v3 |
| **NUMSANG** | DIR + PLTo | EQC Patient | EQC Patient mode 1 |

*Table 6 - ProBioQual*

| EQC tube | Analysis | Analysis Mode |
|---|---|---|
| **HD** | CBC | EQC Control |
| **HDF** | DIF | EQC Control |

# Annex II. EQC settings for Yumizen H1500/H2500

*Table 7 - UK NEQAS*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **FB** | CBC | CONTROL | UK NEQAS [1] |
| **DL** | DIF | CONTROL | UK NEQAS [1] |
| **RE** | RET | BLOOD | STANDARD |

*Table 8 - CAP*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **FH16** | DIF | CONTROL | CAP [2] |
| **RTQ** | RET | CONTROL | DIFFTROL |

*Table 9 - EQAS*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **BC90** | CBC | BLOOD | STANDARD |

*Table 10 - RIQAS*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **RQ9118** | CBC | BLOOD | STANDARD |

*Table 11 - INSTAND*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **211** | CBC | CONTROL | DIFFTROL |
| **216** | RET | CONTROL | MINOTROL RETIC |

*Table 12 - Biologie-Prospective*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **NUMSANG** | DIR, PLTo | BLOOD | STANDARD |

[1] See Table 14 Annex III
[2] See Table 15 Annex III

*Table 13 - ProBioQual*

| EQC tube | Test | Mode | Sample Type (also called Analysis Profile) |
|---|---|---|---|
| **HD** | CBC, PLTo | CONTROL | DIFFTROL |
| **HDF** | DIF, PLTo | CONTROL | DIFFTROL |
| **HJ** | RET | BLOOD | STANDARD |

# Annex III. Specific analysis profile for Yumizen H1500/H2500

*Table 14 – UK NEQAS*

| Name | Initial Sample Type (also called Analysis Profile) | Modifications | |
|---|---|---|---|
| | | HELO 1 (Yumizen H1500/H2500 v1.4) | HELO 2 (Yumizen H1500/H2500 v1.7) |
| UK NEQAS | DIFFTROL | • LMNE matrix -LGauto: False<br>• LMNE matrix -rBFL: 10*<br>• LMNE matrix -rLG: 10 | • LMNE matrix -LGauto: False<br>• LMNE matrix -rBFL: 10<br>• LMNE matrix -rLGl: 10<br>• LMNE matrix -rLGh: 10<br>• LMNE matrix -rLeftGaussLgMax: 35<br>• TNC Distribution -rTNC1 : 4<br>• nrbcLympProp: 0 |

*Table 15 – CAP*

| Name | Initial Sample Type (also called Analysis Profile) | Modifications | |
|---|---|---|---|
| | | HELO 1 (Yumizen H1500/H2500 v1.4) | HELO 2 (Yumizen H1500/H2500 v1.7) |
| CAP | DIFFTROL | • BASO Distribution - calibpBaso: 0.01<br>• WBC Low count - WbvSynthesis.basoLowWbcRatio: 0.1<br>• WBC Noise - BASO.maxEventsBG: 12 000<br>• RBC Abnormal indices - RbcPltSynthesis.MchcMax: 500<br>• LMNE Matrix - rLeftGaussLgMax: 35<br>• LMNE matrix - rLG : 15<br>• LMNE matrix - rBFL : 15<br>• LMNE matrix - LGauto : Desactived | TBD |