

# PROGRAMY MĚŘENÍ

## ***Kalibrace***

*Program č. 1 – Kalibrace – detektor FIALab*

<b>Kalibrace – detektor FIALab</b>
Hardware Settings Integration Time (msec) 40
Hardware Settings Scan Rate (Hz) 8
<b>Loop Start (#) 3</b>
<b>'pump fill carrier</b>
Syringe Pump Valve In
Syringe Pump Flowrate (microliter/sec) 70
Syringe Pump Aspirate (microliter) 1000
Syringe Pump Delay Until Done
<b>'port wash</b>
Analyte New Sample
Analyte Name Rho123
Syringe Pump Valve Out
Multiposition Valve port 3
Syringe Pump Flowrate (microliter/sec) 30
Syringe Pump Aspirate (microliter) 50
Syringe Pump Delay Until Done
<b>'pump empty</b>
Multiposition Valve port 5
Syringe Pump Flowrate (microliter/sec) 30
Syringe Pump Empty
PMT Start Scans
Syringe Pump Delay Until Done
PMT Stop Scans
<b>Loop End</b>

Program č. 2 – Kalibrace – detektor Shimadzu (30/50)

<b>Kalibrace Shimadzu – 30/50</b>
<b>Loop Start (#) 3</b>
<b>'pump fill carrier</b> Syringe Pump Valve In Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1500 Syringe Pump Delay Until Done
<b>'port wash</b> Analyte New Sample Analyte Name Rho123 Syringe Pump Valve Out Multiposition Valve port 3 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Aspirate (microliter) 50 Syringe Pump Delay Until Done
<b>'pump empty</b> Multiposition Valve port 5 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Empty Syringe Pump Delay Until Done
<b>Loop End</b>

Program č. 3 – Kalibrace – detektor Shimadzu (20/60)

<b>Kalibrace Shimadzu – 20/60</b>
<b>Loop Start (#) 3</b>
<b>'pump fill carrier</b> Syringe Pump Valve In Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1500 Syringe Pump Delay Until Done
<b>'port wash</b> Analyte New Sample Analyte Name Rho123 Syringe Pump Valve Out Multiposition Valve port 3 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Aspirate (microliter) 20 Syringe Pump Delay Until Done
<b>'pump empty</b> Multiposition Valve port 5 Syringe Pump Flowrate (microliter/sec) 60 Syringe Pump Empty Syringe Pump Delay Until Done
<b>Loop End</b>

## Vlastní měření

Program č. 4 – vlastní měření – detektor FIALab

Měření 5 minut – detektor FIALab
<b>'No. Measurements 12</b>
Loop Start (#) 12 Hardware Settings Scan Rate (Hz) 4 Hardware Settings Integration Time (msec) 40 Hardware Settings Wavelength 1 (nm) 295 Hardware Settings Wavelength 4 (nm) 700 Hardware Settings Use Wavelength 4 as Reference
<b>'aspiration of carrier</b> Syringe Pump Command (?) KOR Syringe Pump Valve In 'peristaltic pump on Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1000 Syringe Pump Delay Until Done
<b>'aspiration of the sample first time</b> Syringe Pump Valve Out Multiposition Valve port 6 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Delay Until Done Syringe Pump Aspirate (microliter) 100 Syringe Pump Delay Until Done
<b>'first send to WASTE</b> Multiposition Valve port 1 Syringe Pump Delay Until Done Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Delay Until Done Syringe Pump Empty Syringe Pump Delay Until Done
<b>'aspiration of carrier</b> Syringe Pump Command (?) KOR Syringe Pump Valve In Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1000 Syringe Pump Delay Until Done
<b>'aspiration of the sample first time</b> Analyte New Sample Analyte Name Rho123 Syringe Pump Valve Out Multiposition Valve port 6 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Aspirate (microliter) 50 Syringe Pump Delay Until Done

<p><b>PMT Scanning</b>  <b>'first send to Detector</b>  Multiposition Valve port 5  Syringe Pump Delay Until Done  Syringe Pump Flowrate (microliter/sec) 30  Syringe Pump Delay Until Done  Syringe Pump Empty  PMT Start Scans  Syringe Pump Delay Until Done  PMT Stop Scans</p>
<p><b>'aspiration of carrier</b>  Syringe Pump Command (?) KOR  Syringe Pump Valve In  Syringe Pump Flowrate (microliter/sec) 70  Syringe Pump Aspirate (microliter) 1000  Syringe Pump Delay Until Done</p>
<p><b>'aspiration of the sample first time</b>  Analyte New Sample  Analyte Name Rho123  Syringe Pump Valve Out  Multiposition Valve port 6  Syringe Pump Flowrate (microliter/sec) 30  Syringe Pump Aspirate (microliter) 50  Syringe Pump Delay Until Done</p>
<p><b>PMT Scanning</b>  <b>'first send to Detector</b>  Multiposition Valve port 5  Syringe Pump Delay Until Done  Syringe Pump Flowrate (microliter/sec) 30  Syringe Pump Delay Until Done  Syringe Pump Empty  PMT Start Scans  Syringe Pump Delay Until Done  PMT Stop Scans</p>
<p><b>'Doplnění rozpouštědla</b>  Multiposition Valve port 3  Syringe Pump Flowrate (microliter/sec) 50  Syringe Pump Delay Until Done  Syringe Pump Aspirate (microliter) 280  Syringe Pump Delay Until Done  Multiposition Valve port 6  Syringe Pump Dispense (microliter) 250  Syringe Pump Delay Until Done</p>
<p><b>Delay (sec) 84</b></p>

**'aspiration of carrier**

Syringe Pump Command (?) KOR  
Syringe Pump Valve In  
'peristaltic pump on  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Aspirate (microliter) 1000  
Syringe Pump Delay Until Done

**'aspiration of the sample first time**

Syringe Pump Valve Out  
Multiposition Valve port 4  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Delay Until Done  
Syringe Pump Aspirate (microliter) 100  
Syringe Pump Delay Until Done

**'first send to WASTE**

Multiposition Valve port 1  
Syringe Pump Delay Until Done  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Delay Until Done  
Syringe Pump Empty  
Syringe Pump Delay Until Done

**'aspiration of carrier**

Syringe Pump Command (?) KOR  
Syringe Pump Valve In  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Aspirate (microliter) 1000  
Syringe Pump Delay Until Done

**'aspiration of the sample first time**

Analyte New Sample  
Analyte Name Rho123  
Syringe Pump Valve Out  
Multiposition Valve port 4  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Aspirate (microliter) 50  
Syringe Pump Delay Until Done

**PMT Scanning****'first send to Detector**

Multiposition Valve port 5  
Syringe Pump Delay Until Done  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Delay Until Done  
Syringe Pump Empty  
PMT Start Scans  
Syringe Pump Delay Until Done  
PMT Stop Scans

<p><b>'aspiration of carrier</b>  Syringe Pump Command (?) KOR  Syringe Pump Valve In  Syringe Pump Flowrate (microliter/sec) 70  Syringe Pump Aspirate (microliter) 1000  Syringe Pump Delay Until Done</p>
<p><b>'aspiration of the sample first time</b>  Analyte New Sample  Analyte Name Rho123  Syringe Pump Valve Out  Multiposition Valve port 4  Syringe Pump Flowrate (microliter/sec) 30  Syringe Pump Aspirate (microliter) 50  Syringe Pump Delay Until Done</p>
<p><b>PMT Scanning</b>  <b>'first send to Detector</b>  Multiposition Valve port 5  Syringe Pump Delay Until Done  Syringe Pump Flowrate (microliter/sec) 30  Syringe Pump Delay Until Done  Syringe Pump Empty  PMT Start Scans  Syringe Pump Delay Until Done  PMT Stop Scans</p>
<p><b>'Doplnění rozpouštědla</b>  Multiposition Valve port 3  Syringe Pump Flowrate (microliter/sec) 50  Syringe Pump Delay Until Done  Syringe Pump Aspirate (microliter) 280  Syringe Pump Delay Until Done  Multiposition Valve port 4  Syringe Pump Dispense (microliter) 250  Syringe Pump Delay Until Done</p>
<p><b>Delay (sec) 84</b></p>
<p><b>Loop End</b></p>

<b>Měření 5 minut – Shimadzu</b>
<b>'No. Measurements 12</b>
<b>Loop Start (#) 12</b>
<b>'aspiration of carrier</b> Syringe Pump Command (?) KOR Syringe Pump Valve In 'peristaltic pump on Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1000 Syringe Pump Delay Until Done
<b>'aspiration of the sample first time</b> Syringe Pump Valve Out Multiposition Valve port 6 Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Delay Until Done Syringe Pump Aspirate (microliter) 100 Syringe Pump Delay Until Done
<b>'first send to WASTE</b> Multiposition Valve port 1 Syringe Pump Delay Until Done Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Delay Until Done Syringe Pump Empty Syringe Pump Delay Until Done
<b>'aspiration of carrier</b> Syringe Pump Command (?) KOR Syringe Pump Valve In Syringe Pump Flowrate (microliter/sec) 70 Syringe Pump Aspirate (microliter) 1500 Syringe Pump Delay Until Done
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<b>PMT Scanning</b> <b>'first send to Detector</b> Multiposition Valve port 5 Syringe Pump Delay Until Done Syringe Pump Flowrate (microliter/sec) 30 Syringe Pump Delay Until Done Syringe Pump Empty Syringe Pump Delay Until Done

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Syringe Pump Valve In  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Aspirate (microliter) 1500  
Syringe Pump Delay Until Done

**'aspiration of the sample first time**

Analyte New Sample  
Analyte Name Rho123  
Syringe Pump Valve Out  
Multiposition Valve port 6  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Aspirate (microliter) 50  
Syringe Pump Delay Until Done

**PMT Scanning****'first send to Detector**

Multiposition Valve port 5  
Syringe Pump Delay Until Done  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Delay Until Done  
Syringe Pump Empty  
Syringe Pump Delay Until Done

**'Doplnění rozpouštědla**

Multiposition Valve port 3  
Syringe Pump Flowrate (microliter/sec) 50  
Syringe Pump Delay Until Done  
Syringe Pump Aspirate (microliter) 280  
Syringe Pump Delay Until Done  
Multiposition Valve port 6  
Syringe Pump Dispense (microliter) 250  
Syringe Pump Delay Until Done

**Delay (sec) 64****'aspiration of carrier**

Syringe Pump Command (?) KOR  
Syringe Pump Valve In  
'peristaltic pump on  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Aspirate (microliter) 1000  
Syringe Pump Delay Until Done

**'aspiration of the sample first time**

Syringe Pump Valve Out  
Multiposition Valve port 4  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Delay Until Done  
Syringe Pump Aspirate (microliter) 100  
Syringe Pump Delay Until Done



**'first send to WASTE**

Multiposition Valve port 1  
Syringe Pump Delay Until Done  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Delay Until Done  
Syringe Pump Empty  
Syringe Pump Delay Until Done

**'aspiration of carrier**

Syringe Pump Command (?) KOR  
Syringe Pump Valve In  
Syringe Pump Flowrate (microliter/sec) 70  
Syringe Pump Aspirate (microliter) 1500  
Syringe Pump Delay Until Done

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Syringe Pump Valve Out  
Multiposition Valve port 4  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Aspirate (microliter) 50  
Syringe Pump Delay Until Done

**PMT Scanning****'first send to Detector**

Multiposition Valve port 5  
Syringe Pump Delay Until Done  
Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Delay Until Done  
Syringe Pump Empty  
Syringe Pump Delay Until Done

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Syringe Pump Flowrate (microliter/sec) 30  
Syringe Pump Aspirate (microliter) 50  
Syringe Pump Delay Until Done

**PMT Scanning****'first send to Detector**

Multiposition Valve port 5

Syringe Pump Delay Until Done

Syringe Pump Flowrate (microliter/sec) 30

Syringe Pump Delay Until Done

Syringe Pump Empty

Syringe Pump Delay Until Done

**'Doplnění rozpouštědla**

Multiposition Valve port 3

Syringe Pump Flowrate (microliter/sec) 50

Syringe Pump Delay Until Done

Syringe Pump Aspirate (microliter) 280

Syringe Pump Delay Until Done

Multiposition Valve port 4

Syringe Pump Dispense (microliter) 250

Syringe Pump Delay Until Done

**Delay (sec) 64****Loop End**