

Installation schematics for ALEXYS Neurotransmitter Analyzer,
set-up for the analysis of GABA & Glu (2-p HPG option), UHPLC
ALEXYS LC conn. kit, UHPLC base + add-on parts for GABA-Glu analysis (2-p HPG option)
(pn. 180.0190UW) (pn. 180.0504W)



LC equipments should be used by trained laboratory personnel only. Use proper eye and skin protection when working with solvents under high pressures. Additional safety requirements or protection may be necessary depending on the chemicals used with this equipment.



IMPORTANT INSTALLATION INFORMATION

Read the LC connection kit install guide (p/n 180.7001W), before installation of the LC connection

1. The piston wash tubing is not part of the LC connection kit; it can be found in the P6.1L shipkit. Read instruction in the pump P6.1L manual p/n 194.0010 how to install. Also install the supplied drainage system (funnels, hoses, nozzles) for leak management as described in the pump and autosampler user manuals.
2. The P6.1L pump with integrated degasser comes with pre-installed tubing between Solvent Switch Valve (SSV), degasser, pump head inlet, pump head outlet and purge valve. Remote the tube from the SSV, which will not be used.
3. The UHPLC pulse damper (p/n 250.EZZ00NB) has to be mounted in a bracket on the side of the P6.1L pump using the parts and instructions supplied in the shipping box of the damper. The tubing between Pump 1 purge valve and pulse damper is not part of the LC connection kit, but it is part of the pulse damper shipkit. Make sure to follow the paragraph 'Instructions for connecting the flexible 1/32" OD tubing with fused 1/16" end sleeves' from the general LC connection kit install guide (p/n. 180.7001W). Reordering information for a replacement tubing is: Pulse damper inlet assembly, UHPLC (p/n 180.0210U).
4. The autosampler valve is standard equipped with a 5 µL loop, which gives best detection limits for the analysis of GABA. For best analysis of GABA and Glu, the 5 µL loop should be replaced by the 1.5 µL (p/n 250.1220) supplied with the ALEXYS GABA-Glu kit.
5. For optimal performance it is required to passivate all metal parts in this system using a 15% solution of HNO3. See the instructions 'Passivation of new metal-containing systems' in the document 'General requirements for installation of ALEXYS' (p/n 180.7070C).
6. Zero-dead volume connections between the injector and flow cell are critical for best performance. Make sure to follow the LC connection kit install guide (p/n 180.7001W) when connecting the internal reducer.
7. Replacement filters can be ordered as '*PEEK filter for 1/8" MP inlet, 2um*' (pn. 250.1704). When replacing, push the tubing deep into the port that is connected to the bottom inlet until it holds.

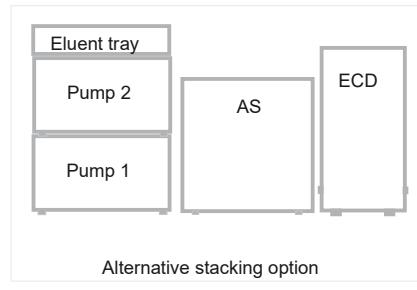
General advise: make connections in the high pressure flow path sufficiently tight. A sudden slip of a pressurized tubing leads to a large pressure drop, which can damage the column and other parts of the system.

Alternative stacking option

In case the system cannot be stacked with the small footprint (not allowed, or not enough space for stacking instruments), then a feasible alternative is to place the pumps on the table instead of on top of the autosampler. The tubing S' is long enough to accommodate this alternative option.

Legend LC tubing*:

- FEP 1/8", 1.59 mm ID, transparent
- PTFE 1/16", 0.5 mm ID, transparent
- Stainless Steel 1/32", 0.25 mm ID, with 1/16" ends
- Stainless Steel 1/32", 0.13 mm ID
- PEEKSIL 1/32", 0.075 mm ID (black cladding)
- PEEK 1/16", 0.064 mm ID, pink-striped
- Silicone 3 mm, 1 mm ID, transparent
- PEEK 1/16", 0.50 mm ID, orange-striped



*) Note that the color coding of the LC tubing in the drawing does not necessarily reflect the real color of the corresponding tubing.