

Using the sample changer SampleXpress on AVL 500 MHz



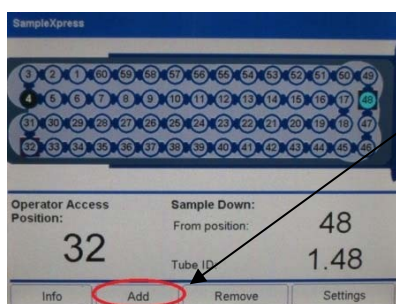
1- Choose a spinner on the bench and insert the NMR tube (containing 600 μ L of deuterated solvent) into the spinner. Make sure that the bottom of the tube touches the bottom of the calibrator.

All tubes must be 20 cm or less in length and of good quality, *i.e.* neither broken nor cracked.



- 1) Maximum NMR tube height
- 2) NMR tube
- 3) Spinner
- 4) Position number (on the right)

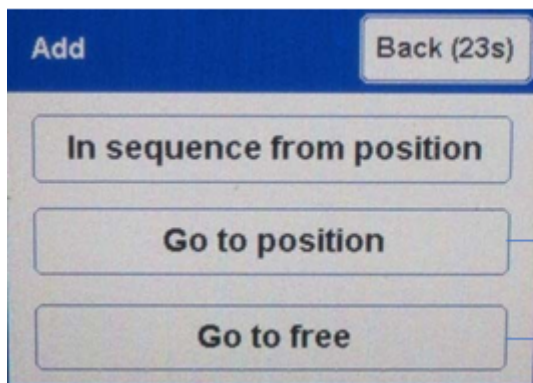
2- **TUBE DEPOSIT:** On the SampleXpress screen press **Add**:



Description of SampleXpress icons (not to be confused with IconNMR icons)

Icon	Color	Description
	Grey	Empty and available position
	White	Position occupied but not analysed
	Green	Position occupied and analysis completed
	Blue	Position reserved for the tube currently in the magnet. Position not available for a new sample
	Red	Error on this tube. Use the info button on the main menu for further information
	Pink	Tube going to magnet access position. Queued status
	Orange rectangle	Current position selected for adding or removing tube
	Yellow circle	Tube ejected from magnet by safety ejector

- 3- Press **Go to Free** to move to the next free position or **Go to Position** to select a specific position. The SampleXpress autosampler will rotate and present the selected position.
CAUTION: the position number is read on the right-hand side:



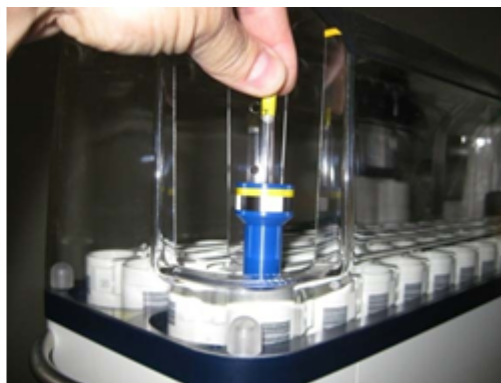
Return to the menu at the end of the countdown or click to return directly to the menu.

Select of a specific position

Select next free position

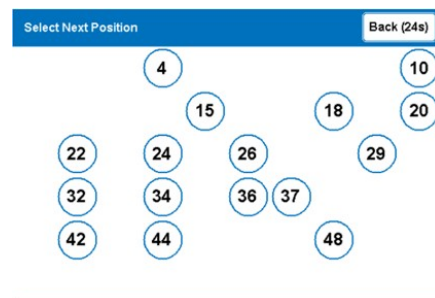
- 4- Choose a **grey position** for your tube (see below) and place the tube in the open space of the carousel. When the tube is in place, a yellow light will flash and SampleXpress will return to the position selection menu.

CAUTION: This happens each time a new spinner is detected by SampleXpress.



5- TUBE REMOVING

On the touch screen, press **Remove** then **Go to position** and press the appropriate number. Your tube will be presented in the SampleXpress open space.



CAUTION: Follow the rules. To avoid errors, please follow the programming order under IconNMR before relying on the indications provided by the SampleXpress screen (for any problem, please contact Florian FERRER, office 18).