Sartorius Picus® 2 for Food Safety



How to speed up use of Picus® 2 pipette in food safety applications

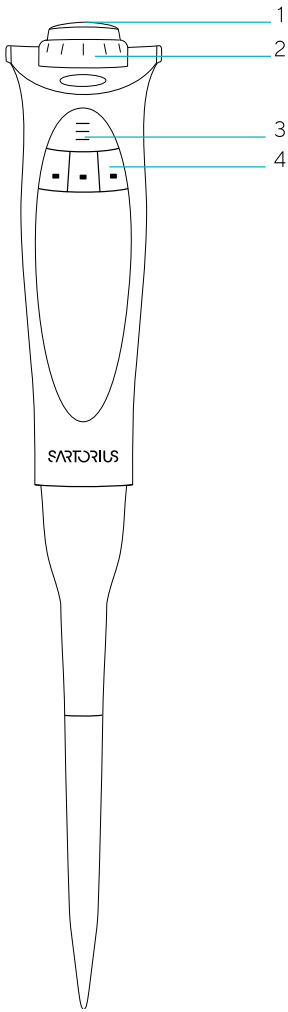
Picus® 2 pipettes speed up the sample preparation workflow for food testing applications and help you to perform the sample preparation in the same way every time, thanks to fully electronic operations. The instructions below help you to program and use the dilution programs.

The pipette can be programmed to have fixed dilution modes. 1:5, 1:10, and 1:20 dilutions are commonly used and used as examples here. It is recommended to store the protocols in the pipette's memory. Please follow the instructions on the 2nd page how to store dilution programs in memory.

To setup the dilution protocols for the first time, go to section 3.

1. Operating Buttons

1. Operating button
2. Adjustment wheel
3. Hotkey
4. Softkeys



2. To activate previously saved diluting mode

1. Press the Hotkey
2. Turn the adjustment wheel to select desired memory place (see table 1 for recommended names and dilution factors)
3. Press the right softkey for **OK** to activate the memory place
4. Operate the pipette by pressing the operation button. The pipette will adjust the volume and steps according to the protocol.

3. Instructions to change the settings for diluting mode and save them to memory

1. Turn on the pipette by pressing the **on|off** button
2. Press the left Softkey for **menu** to access menu
3. Turn the Adjustment wheel to scroll down on menu to select Diluting
4. Press the middle Softkey for **edit** to edit the Diluting settings
   a. Turn the adjustment wheel to change the first volume (see first and second dilution volumes in Table 1 for 1 ml and 5 ml pipettes)
   b. Press middle Softkey to set the airgap between the two liquids
   c. Press the middle Softkey for next to activate second volume setting
   d. Turn the adjustment wheel to change the second volume
      i. Optional steps to change aspiration and dispensing speed
      ii. Press the middle Softkey for **next** to activate aspiration speed setting
      iii. Turn the adjustment wheel to change aspiration speed
      iv. Press the middle softkey for **next** to activate dispensing speed setting
      v. Turn the adjustment wheel to change dispensing speed
   e. Press the right Softkey for **OK** to accept new settings

Optional steps for configurating advanced settings prior to saving the mode settings

a. Press the right Softkey for **ADV** to enter the advanced settings
b. Press the middle Softkey for **edit** to enable blowout function
c. Turn the adjustment wheel to highlight Mix. post disp.
d. Press the middle Softkey for **edit** to enable post dispensing mixing
e. Press the right Softkey for **save** to save the new settings

If mixing has been enabled, to configure the mixing

a. Press the middle Softkey for **edit** and press **next** until the mixing is highlighted
b. Turn the adjustment wheel to change between manual mixing or a set number of cycles
c. Press the middle Softkey for **next** to change the aspiration volume for the mixing
d. Press right Softkey for **OK** to save the changed settings

Save the diluting mode settings to memory so they can be re-activated when needed

1. Turn the adjustment wheel to select a free memory place

2. Press the middle Softkey for **save** to save the mode settings
   a. Optional steps to name the memory place for easier identification
   b. Press the middle Softkey for **edit** to edit the name
   c. Turn the adjustment wheel to change the highlighted character
   d. Press the middle Softkey to change between capital letters, standard letters, numbers, and special characters or to clear a character
   e. Press the right Softkey for **OK** to highlight next character
   f. Once all the characters (maximum number of characters is 7) are changed press the right Softkey for **OK** to accept new name

3. Press the right Softkey for **OK** to save the mode settings to memory

Name		1st and 2nd volumes
For Picus® 2 50 - 1,000 µl		
D1	1:5 dilution	800µl + 200µl
D2	1:10 dilution	900µl + 100µl
D3	1:20 dilution	950µl + 50µl
For Picus® 2 100-5,000 µl		
D1	1:5 dilution	4,000µl + 1,000µl
D2	1:10 dilution	4,500µl + 500µl
D3	1:20 dilution	4,750µl + 250µl
D4	1:5 dilution	800µl + 200µl
D5	1:10 dilution	900µl + 100µl

All Picus® 2 pipettes have all the standard Pipetting and Diluting modes that can be used if you need to either pipette or dilute any custom amounts. To select either Pipetting or Diluting mode please follow the instructions in Picus® 2 Quick Start guide.

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