

# Application Note

## Sandwich technique for small sample volumes

### Description:

This application allows sandwiching of sample between user-selected volumes of wash solvent. In addition, after a user-specified delay, the injection valve is toggled back to the Load position and washed using the same solvent. This will be done after the standard syringe and valve wash sequence.

The pump system can get an injected signal that allows its program to increase flow rate for specific period of time to permit rapid introduction of sandwiched sample onto the column.

### Benefit/Use

To control small sample volumes for capillary injections  
Can help minimize sample carryover since the last solvent that the valve sees is wash solvent

### Equipment Requirements:

HTS PAL  
Second Valve drive  
Interface cable with SW1 and SW2

### Required Special PAL Objects and Settings:

Solvent must be placed in a "Vial" object on the PAL

### Software Requirements:

Cycle Composer with Special Macro

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