

UNLIMITED CHEMISTRY

## SYMBIOSIS™ PICO

### Reverse Phase

HySphere C2-SE, 7 µm	Isolute-C2
HySphere C8-SE, 7 µm	Isolute-C2-EC
HySphere C8 EC-SE, 7 µm	Isolute-C8
HySphere C18-SE, 7 µm	Isolute-C8-EC
HySphere C18-HD, 7 µm	Isolute-C18
BondElute-CH	Isolute-C18-EC
BondElute-C2	Isolute-PH
BondElute-C8	Isolute-PH-EC
BondElute-C18	
BondElute-PH	
BondElute-C18-OH	

### Polar Phase

HySphere CN-SE, 7 µm	Isolute-CN
BondElute-CN	Isolute-SI
BondElute-SI	Isolute-NH2
BondElute-NH2	Isolute Diol
BondElute-PSA	

### Polymeric Phase

HySphere Resin SH, 20-50 (mean 35)µm  
HySphere Resin GP, 5-20 (mean 12)µm

PLRP-s *	Plexa *
Focus *	OASIS HLB *

### Ion-Exchange

HySphere MM anion, 10 µm	Isolute-SCX
HySphere MM cation, 10 µm	Isolute-SAX
BondElute-SCX	Isolute-PRS
BondElute-SAX	Isolute-CBA
BondElute PRS	Isolute Confirm HCX
BondElute CBA	OASIS MCX *
BondElute Certity	OASIS MAX *
BondElute Certify II	OASIS WCX *
	OASIS WAX *

\* Available via Varian and or Waters

LEARN MORE  
ABOUT SYMBIOSIS™



[WWW.SPARKHOLLAND.COM/PICO](http://WWW.SPARKHOLLAND.COM/PICO)

**Spark**  
HOLLAND

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# SYMBIOSIS™ PICO



## HPLC & SPE IN ONE

**Spark**  
HOLLAND



**In the quest for higher lab efficiency, budget restrictions force lab managers to trade off further automating HPLC analysis and automating Sample Preparation. Pico ends this dilemma. The Symbiosis™ Pico is a small affordable and versatile online SPE System imbedded in a high-end HPLC system.**

The base of the Symbiosis™ Pico system is a high-end HPLC system with a high performance injector that handles sample volumes from 10µl up to 10ml and can add, mix and dilute samples prior to the analysis, fully automated!

The new high pressure gradient LC pumps come with a 4 channel solvent selector for each pump, to allow the use of multiple LC solvents and gradients. Combined with the optional column oven with integrated 6 port LC column selector, a large variety of LC conditions can be selected in one unattended run, giving the highest degree of flexibility both for method development and routine use.

On top of that, Symbiosis™ Pico has an integrated sample preparation system that offers all the advantages of online Solid Phase Extraction like higher assay sensitivity, analysis of small sample injection volumes, no manual labor and lower costs of analysis. The new multi dimensional SPE mode allows the use of 2 different extraction mechanisms on 2 separate disposable SPE cartridges in one sample run, resulting in the highest possible clean-up per sample.

## Symbiosis™ Pico

- High pressure gradient mix of LC solvents
- 4 channel LC solvent selector per pump
- Integrated degasser
- Capacity 2x96 samples
- Programmable Mix & Dilute in sampler
- 7 selectable wash solvents in sampler
- 13 selectable SPE solvents
- Automated mix of SPE solvents
- Parallel processing
- RF transponder chip reader
- 6 selectable LC columns

HPLC

ONLINE SPE

TEMPERATURE CONTROL

UNLIMITED CHEMISTRY

MULTI DIMENSIONAL SPE

## Technical advantages

- Highest assay sensitivity
- No sample loss
- Minimal carry over
- Robust and reproducible assays
- 100% traceability

## Operational advantages

- Full control from MS software
- Switch between LC and XLC
- Switch between assays
- Uninterrupted run of multiple batches
- Share electronic method files

## Economical advantages

- Best Return on Investment
- No additional capital investments
- Shortest method development time
- Minimal use of human resources