

# SepaBean<sup>TM</sup> machine

Enhance your lab's performance with high-pressure mixing, wireless control, and flexible fraction collection.



Simplify your purification, maximize your efficiency!

Santai Science Inc.

## SepaBean<sup>™</sup> machine

#### Simplify your purification, maximize your efficiency!

#### **Product Overview**

The SepaBean<sup>™</sup> machine, the standard version, offers all the features of the SepaBean™ App, including wireless control and operation. This model features a four-line binary gradient that supports any two-solvent combination and enables high pressure mixing. An optional ELSD detector is available to enhance detection for a broader range of sample types.

#### **Key Features**

#### **Standard Version with All Features**

Provides high-quality purification solutions with a high pressure mixing.

#### Wireless Control and Operation

Allows remote control via mobile devices, ideal for light-sensitive or isolated experiments.

#### **Easy Flash Method Development**

Optimizes and transfers separation conditions from HPLC and TLC for efficient, scalable purification.

#### Optional ELSD Detector

Optional ELSD expands detection capabilities to cover a wider range of sample types, including non-UV-active compounds.

#### **Main Characteristics**







Free Pump

Maintenance Four Solvent Maximum Flow Rate (mL/min) & Pressure Resistance (psi)

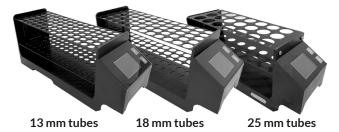
#### **Equipment Specifications**

Characteristics	Specifications
User Interface	4.3 inches screen (≈ 10 cm)
Control Device	Wireless operation through iPad®
Flow Rate Range	1 - 200 mL/min
Maximum Pressure	200 psi (13.8 bar)
Detectors	<ul> <li>DAD 200 - 400 nm UV Detector</li> <li>DAD 200 - 800 nm UV/Vis Detector</li> <li>ELSD Universal Detector (optional)</li> </ul>
Spectral Display	Single, dual, or all-wavelengths
Pumping System	Maintenance free ceramic pump
Number of Solvents	Four (4) solvents binary with any combinations of two (2) solvents, high pressure mixing
<b>Gradient Types</b>	Isocratic, linear, and step gradients
Column Sizes	4 g - 330 g Up to 3 kg with adapters
Sample Loading Capacity	4 mg - 300 g

Characteristics	Specifications
Air Pump Module	Included (to purge solvent residues)
Certification	CE
21-CFR Part 11 Compliance	The control software meets FDA requirements for system safety
Collection Module	LCD display for intelligent identification of test tube racks
Fraction Collection	All, waste, threshold, slope, or time
Fraction Collector	• 13, 15, 16, 18, or 25 mm tubes • French square 250 or 500 mL bottle or large collection bottle (optional)
Safety Configuration	Intelligent liquid and pressure alarm
Sample Injection	Liquid and solid sampling
<b>Smart Column Holder</b>	Suitable for 4 to 330 g flash columns
Dimensions (W x D x H)	40 x 40 x 62 cm (15.7 x 15.7 x 24.4 in)
Weight	48 kg (106 lbs)

#### **Fraction Collector**

The SepaBean™ machine features a fraction collector with tube racks and LCD displays, enabling easy tracking of collected fractions. Racks are available for 13, 15, 16, 18, and 25 mm tubes. Optional accessories include 250 mL and 500 mL French square bottles, along with larger collection bottles for added flexibility.



#### **Optional Universal ELSD Detector**

The SepaFlash™ FP LT-ELSD is a universal low-temperature evaporative light scattering detector ideal for analytes without chromophoric or electroactive groups, including carbohydrates, lipids, and polymers. Its low-temperature technology ensures high sensitivity, low noise, and optimal detection of thermally unstable or semi-volatile compounds. Compatible with all SepaBean™ models, this detector enhances performance in complex separations across various systems.



#### **Cartridges Compatibility**

The SepaBean™ machine is compatible with SepaFlash™ and iLOK™ cartridges ranging from 4 g to 330 g, without requiring adaptors. For larger sizes (up to 3.0 kg), an adaptor is required. Cartridges are available with various adsorbents, including silica (bare and bonded phases like C18, NH<sub>2</sub>, etc.), providing versatile application

**options.** Note: the equipment is designed to be compatible with cartridges from other brands, offering flexibility for diverse applications. Please note that columns shown below are not at scale.

# SepaFlash™ Standard Series (small and large scale)





#### **Ordering Information**

Item Number	Description	
SepaBean™ machine - CE Certification		
SPB02000200-3	With 200 - 400 nm DAD UV detector	
SPB02000200-4	With 200 - 800 nm DAD UV/Vis detector	
Optional ESLD Detector and Start Kit		
DMV10212	Low temperature evaporative light scattering (ELSD) detector	
DMV10070	Low temperature evaporative light scattering (ELSD) detector and start kit	
DMV10071	Low temperature evaporative light scattering (ELSD) start kit only including adapters, flow-splitter valve, and tubing	

Item Number	Description	
Fraction Collector Tube Rack		
FCV10239	Tube rack for 13 mm diameter tubes [13 x 150 mm, 84 tubes per rack]	
FCV10209	Tube rack for 15 mm diameter tubes [15 x 150 mm, 84 tubes per rack]	
FCV10735	Tube rack for 16 mm diameter tubes [16 x 150 mm, 60 tubes per rack]	
FCV10210	Tube rack for 18 mm diameter tubes [18 x 150 mm, 60 tubes per rack]	
FCV10240	Tube rack for 25 mm diameter tubes [25 x 150 mm, 21 tubes per rack]	
French Square Bottle Rack Holding 12 Bottles		
FCV10043	250 mL square bottle tray	
FCV10042	500 mL square bottle tray	
Luer Connector Kit for Large Columns (Adaptor)		
BLL-0304	Luer Connector kit for large columns (800 g, 1600 g, 3 kg, and 5 kg)	



# **SepaBean<sup>™</sup> Family**

machine U



machine T

(best-seller)



machine

(standard version)



machine 2

(medium pressure)



#### machine L

(scale-up)



# SepaFlash<sup>™</sup> Columns

Standard Series



Large Size Series



HP, Bio & Bonded Series



iLOK<sup>™</sup>Series

(empty & pre-packed)



iLOK<sup>™</sup>- SL Series

(Solid-load cartridges)



Ultra-Pure Bare Silica Gels



Ultra-Pure Bonded Silica Gels



**TLC Plates** 



### Other SepaFlash™ Products



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