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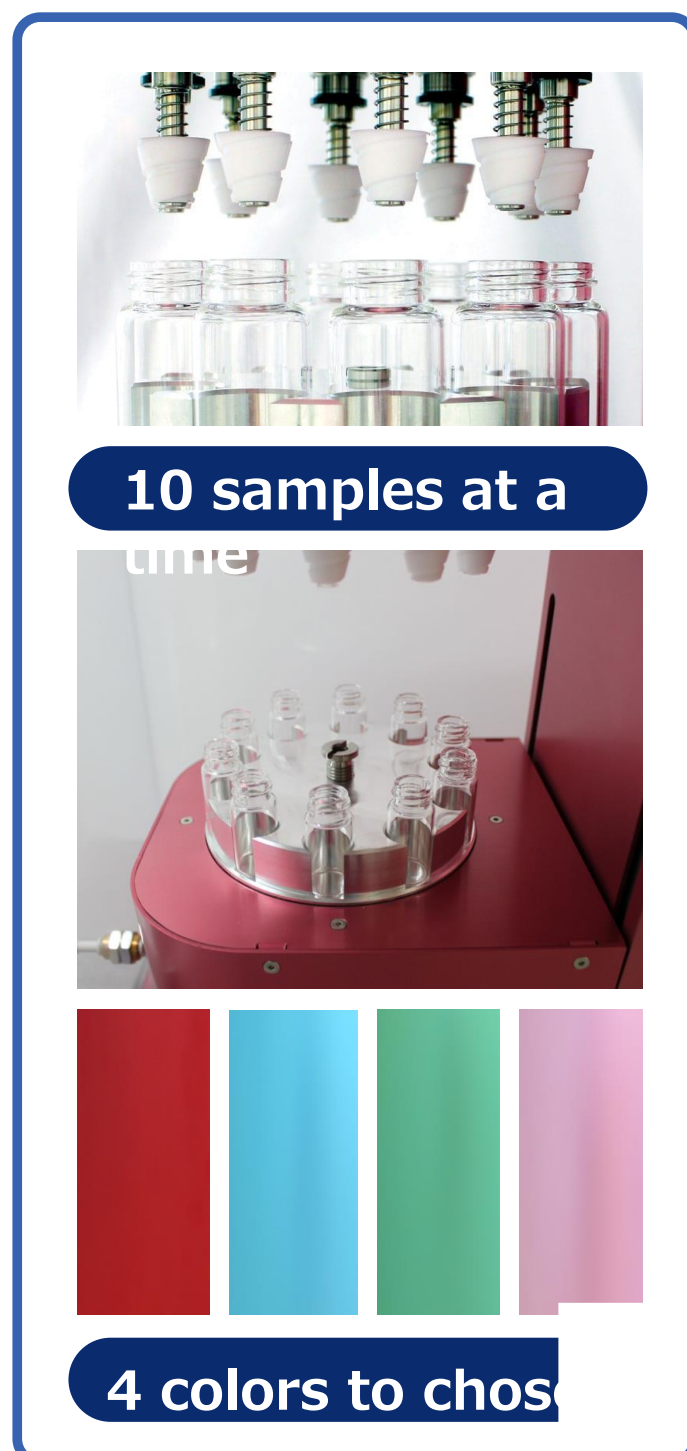
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<https://biochromato.nt-rt.ru> || boa@nt-rt.ru

- **DMSO,DMF,WATER** can be evapoeated with **NO BUMPING**
- Solvent removal directly from **HPLC/LC/GC** vials
- Sample concentration after fractionation,NMR measurement,etc.
- **10 vials at a time** – saves evaporation time and labor

Smart Evaporator C10



DMSO,DMF,Water



The Smart Evaporator enables efficient evaporation of high-boiling point solvents - even DMSO, DMF, and water. All models are with the heating function, and the covered models* allow the use of inert gas, which accelerates faster concentration. (*C1 and C10)

Fast and Effective Evaporation

Solvent / Capacity	Flow rate	40℃	70℃
Hexane / 5 mL (20 mL vial)	15L/min	3 min	3 min
Acetone / 5 mL (20 mL vial)	15L/min	4 min	3 min
Ethyl acetate / 5 mL (20 mL vial)	15L/min	6 min	5 min
Acetonitrile/ 5 mL (20 mL vial)	15L/min	9 min	8 min
Methanol/ 5 mL (20 mL vial)	15L/min	10 min	6 min
Ethanol /5 mL (20 mL vial)	15L/min	10 min	6 min
*Deionized Water / 5 mL (20 mL vial)	29~30L/min	49 min	28 min
*DMF / 5 mL (20 mL vial)	20~30L/min	43 min	24 min
*DMSO / 5 mL (20 mL vial)	23~30L/min	195 min	69 min
*NMP / 5 mL (20 mL vial)	25~30L/min	N/A	71 min

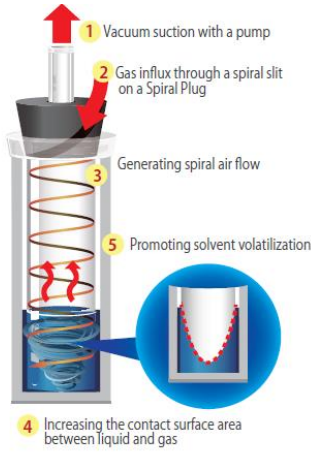
* Gas purge data

Bump Free Technology



The novel Spiral Plug technology generates a helical flow of air over the surface of the solvent, thereby increasing the surface area. Since the container isn't under high vacuum, there is no risk of bumping or splashing.

Vacuum Vortex Concentrration



Smart Evaporator C10 includes a set of:

- 10 x Spiral Plugs of your choice (size P1 ~ P3)
- 1 x Vial Holder of the corresponding size (size 1 ~ 3)

Specifications

Product Name	Smart Evaporator C10
Heater shape & size *	solid vial holder with 10 holes (available in 3 sizes: φ11.7mm/ φ18mm/ φ27mm)
Heater temperature range	Room temperature to 100 ℃
Size of container	P1: 1.5mL vial (less than φ11.7mm), P2: 6mL vial (less than φ18mm), P3: 20mL vial (less than φ27mm)
Color	4 colors (Sun, Sky, Squall, Grass)
Size (mm)	W350 x D300 x H531 (except protruded parts)
Weight	20kg
Operating environment	Temperature: 10℃~ to 40℃ Humidity: 20~80%

Optional Items



Spiral plugs
Available in 3 size
(for supplement / replacement)



Vial Holder
Available in 3 size
(for supplement / replacement)



Vacuum Pump
High flow rate is needed for evaporating multi channels
Recommended Model :
[DA-241S by ULVAC](#)
(sold separately)

Customers' Voices for Smart Evaporator C10

Definitely fast and effective evaporation of multiple samples!



Mr. Kanomata who is developing the efficient catalytic reaction utilizes the Smart Evaporator C10 to evaporate 3~8 samples at a time as a pretreatment prior to analysis of extracted components.

Time required for evaporation

number of samples	Rotary Evaporator	C10
1	15min	15min
3	45min	15min
8	120min	15min

It used to take about 2 hours, but now it takes only 15 minutes that improves their workability. Also in principal there is no bumping so they are released from contamination risk which also improves their research efficiency. It is a great honor to contribute shortening the researcher's operation time, and to have their comment, "This is definitely fast and convenient solution for multiple samples".

PD Kyohei Kanomata,
Bioresources Chemistry,
Department of Agro-
environmental Sciences,
Faculty of Agriculture, Kyushu
University

Multiple evaporations of water or mixed solvents for ingredient analysis pretreatment with the C10!



In her laboratory, four types of equipment such as a freeze dryer, a centrifugal evaporator, a nitrogen blowing system, and a rotary evaporator were appropriately selected for evaporating water, sample mixed with water and organic solvents depending on their quantity.

	Water	water + organic solvent (large qty)	water + organic solvent (small qty)
1mL	Nitrogen blowing	Nitrogen blowing	Nitrogen blowing
1 ~ 20mL	Freeze dryer	Centrifugal evaporator	Centrifugal evaporator
20 ~ 50mL	Freeze dryer	Centrifugal evaporator	Rotary evaporator
50mL~	Freeze dryer	Rotary evaporator	Rotary evaporator

	Water	water + organic solvent (large qty)	water + organic solvent (small qty)
1mL	Smart Evaporator C10		
1 ~ 20mL			
20 ~ 50mL			
50mL~			
*Samples are divided in containers and evaporated at a time.			

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