Dilunbio

PRODUCT LIST

R&D Peptide Synthesiser

Type	Channels	Reactor/mL	Scale/mmol	Resin/g	TCM
319 Pro	1	25 / 50	0.1~0.6	0.1~1	Air or Water
		50 / 100 / 250	0.2~3	0.2~5	Air or Water
286 Pro	3 or 6	25 / 50	0.1~0.6	0.1~1	Air or Water
		50 / 100 / 250	0.2~3	0.2~5	Air or Water
386 Pro	6 or 12	25 / 50	0.01~0.6	0.1~1	Air or Water
386 MW	1 or 12	30 / 120	0.1~1.5	0.1~2	MicroWave

R&D Peptide Cleavage Equipment

Type	Channels	Reactor/mL	Scale/mmol	Resin/g	TCM
431	6	10 ~ 500	0.1~10	0.2~20	N/A

Pilot & Production Scale Peptide Synthesizer

Type	Channels	Reactor/L	Scale/mmol	Resin/g	TCU
286 Max	2	0.5/1/2	2~25	2~40	Water
486 Pro	1	0.5/1/2	2~25	2~40	Water
		1/2/5	4~60	4~100	Water
586 Pro	1	2/5/10	8~120	8~200	Water
		10/20/30	20~360	20~600	Water

Industrial-Grade Peptide Cleavage System

Type	Channels	Reactor/L	Scale/mol	Resin/kg	TCM
686	1	50	0.3~0.6	0.5~1	Water/Ethylene Glycol
		100	0.6~1.2	1~2	
		300	1.8~3.6	3~6	
		500	3.6~7.2	6~12	

Industrial-Grade Peptide Synthesizer System

Type	Channels	Reactor/L	Scale/mol	Resin/kg	TCM
DL-PC	1	20~250L	1.8~3.6	0.2~6	Water/Ethylene Glycol

*Tetras Multiple Peptide Synthesizer

Type	Channels	Reactor/mL	Scale/mmol	Resin/g	TCU
Tetras	106	7/20/60	0.01~1.5	0.01~3	Warm Wind

Note:TCM means Temperature Control Medium, TCU means Temperature Control Unit

Tel:+8610-84813519 Email:Contact@Dilunbio.com Web : www.dilunbio.com

ADVANCED CHEMTECH

American Tetras Multiple Peptide Synthesizer

The only synthesizer on the market with 106 reactors
Analogous to 106 single channel Synthesizer

The Tetras Multiple Peptide Synthesizer is the only fully automated asynchronous peptide synthesizer on the market today that can use up to 106 reactors. Utilizing patented rotary technology and asynchronous multi-channel peptide synthesis, the Tetras offers unparalleled flexibility, ease of use, stability, and ease of maintenance. Tetras delivers rapid and precise injection of reaction reagents into individual reactors, eliminating cross-contamination and enabling optimal synthesis of each peptide according to peptide sequence. It enables you to maximize the number of high purity peptides in the shortest possible time. Tetras is the ideal tool for your peptide production, research and teaching.

Beijing Dilun Biotechnology Co.,Ltd.

PROFESSIONAL PEPTIDE SOLUTION PROVIDER

Features:

Asynchronous Multi-Channel Peptide Synthesis

Traditional high-throughput peptide synthesis instrument each peptide must be contracted at the same time, the synthesis method must also be the same, very inflexible, peptide extraction has unparalleled flexibility, at the same time, can be used in a variety of synthesis methods to synthesise different peptide sequences. Peptide extraction can be added at any time to the new sequence, take away the peptide resin synthesis is completed.

01 To meet the needs of scientific research, different sequences can be synthesised using their own synthesis methods; or the same sequence using different synthesis methods, and finally find the best synthesis method for the sequence.

02 To meet the needs of scientific research, different sequences can be synthesised using their own synthesis methods; or the same sequence using different synthesis methods, and finally find the best synthesis method for the sequence.

03 To meet the needs of teaching, the same instrument, different students, different methods can be used to synthesise different peptides.

04 To meet the needs of peptide library synthesis, up to 106 reactors can be used simultaneously to synthesise peptides.

Independent Reactors

Reactors are available in three sizes: large, medium and small. The reactors are independent and free of cross-contamination. The curved bottom design allows for full reaction and high purity of synthesis. The three sizes of reactors can be arranged and combined according to the needs of the reaction. Up to 106 small reactors can be used at one time

Three Sizes of Reactors: Large, Medium and Small

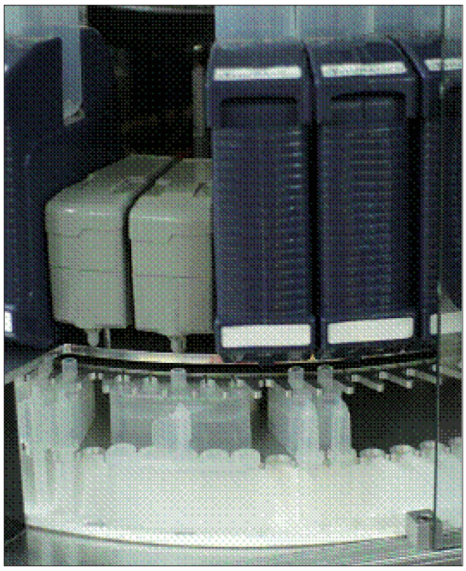
Small Reactor: 7ml, working volume 4ml, synthesis scale 30-100μmol or 100 to 300mg of resin.
Medium Reactor: 40ml, working volume 25ml, synthesis scale 100-500μmol or 10mg-1g of resin.
Large Reactor: 60ml, working volume 40 ml, synthesis scale 0.25-1mmol or 500mg -1.5 g of resin.

Modular Design of Injection and Evacuation Stations

The injection station injects amino acids, reagents and solvents into the reactor via digitally controlled metering pumps.

The modular design of the injection station is easy to replace and maintain, resulting in virtually zero instrument downtime. Below the injection station is the reactor. The fluid flow paths are non-crossing and short, thus saving a lot of solvents and reagents for cleaning the lines.

The digitally controlled metering pump saves time and reagents by providing high transfer accuracy and speed. Depending on the requirements, the instrument can be equipped with 24 to 32 injection stations. The injection stations can be built-in with 125 ml, 230 ml, 500 ml reagent bottles and can be connected to any volume of large capacity containers.

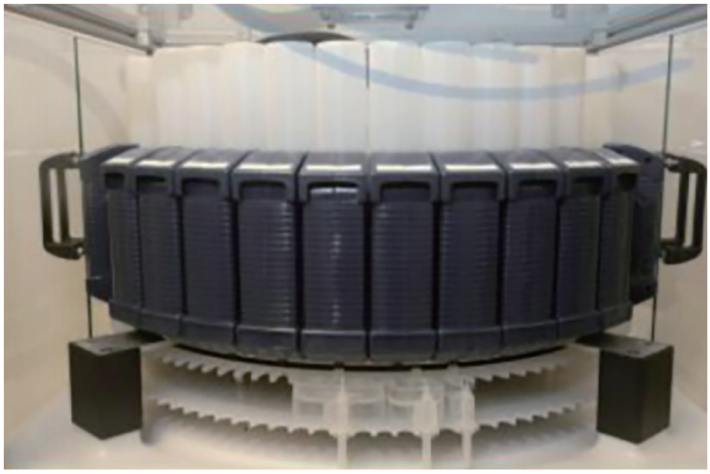


Schematic diagram of the main components of the instrument: injection station, emptying station, built-in reagent bottles, and large and small reactors.

Remote Control

Through the internet, the user can operate the instrument from home and the instrument can also send you email reports on its operation;

With the permission of the user, the manufacturer can run or diagnose the instrument remotely, train the user remotely, help the user to find faults and solve problems, and improve the operation efficiency of the instrument.



Three Reactors Placed Side By Side On The Apparatus

Flexible, Easy to Use, Intuitive Software

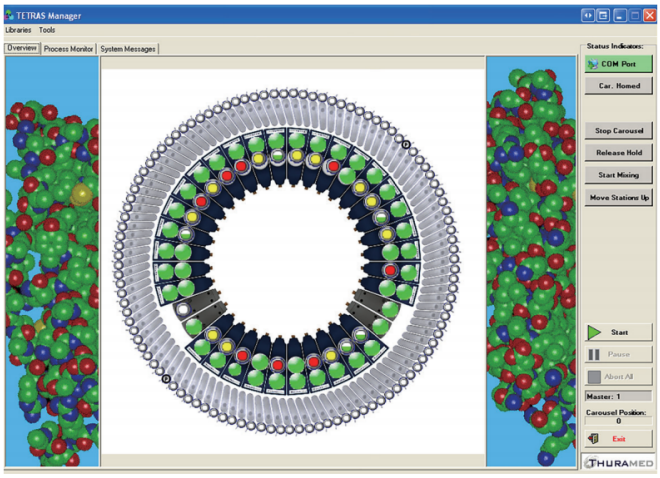
Synthesis methods are pre-programmed, but can be changed by the user as required.
One screen monitoring of all reactions and status.
Calculates reagent usage with red symbols to remind the user to add more.
Unlimited storage of synthesis methods.

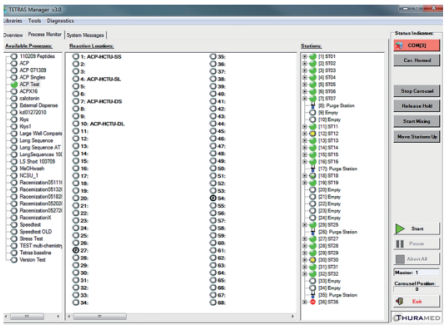
Basic Parameters

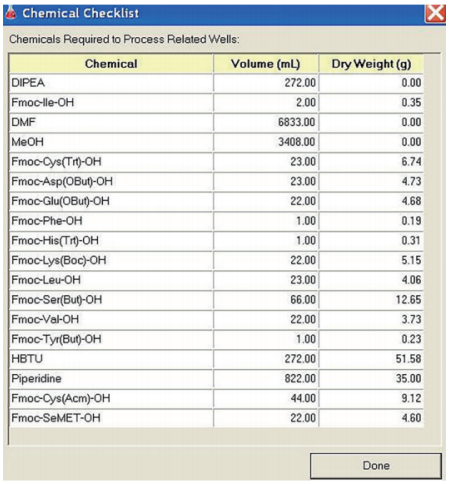
Model	Channels	Reagent	Purge Stations	Purge Station Function	Dimension cm
Tetras	≦106	≦32	4	Drain	86×86×95
Tetras Volo	≦106	≦32	4	Drain and wash	86×86×95
Tetras Volo Plus	≦106	≦32	8	Drain and wash	86×86×95

Integrated Software and Hard Drive

Synthesis methods are pre-programmed, but can be changed by the user as required.
One screen monitoring of all reactions and status.
Calculates reagent usage with red symbols to remind the user to add more.
Unlimited storage of synthesis methods.







Chemical	Volume (mL)	Dry Weight (g)
DIPEA	272.00	0.00
Fmoc-Ile-OH	2.00	0.35
DMF	6833.00	0.00
MeOH	3408.00	0.00
Fmoc-Cys(Trt)-OH	23.00	6.74
Fmoc-Asp(OBut)-OH	23.00	4.73
Fmoc-Glu(OBut)-OH	22.00	4.68
Fmoc-Phe-OH	1.00	0.19
Fmoc-His(Trt)-OH	1.00	0.31
Fmoc-Lys(Boc)-OH	22.00	5.15
Fmoc-Leu-OH	23.00	4.06
Fmoc-Ser(But)-OH	66.00	12.65
Fmoc-Val-OH	22.00	3.73
Fmoc-Tyr(But)-OH	1.00	0.23
HBTU	272.00	51.58
Piperidine	822.00	35.00
Fmoc-Cys(Acm)-OH	44.00	9.12
Fmoc-SeMET-OH	22.00	4.60

Technical Indicators

- Reactor: 7ml; 40ml; 60ml
- Scale: 30-1000μmol or 0.01-3g resin
- Reagent: Optional unlimited
- Cutting: on-line automatic or off-line manual
- Reagent transfer precision: deviation <1%
- Transfer flow rate: 0.25-1ml/sec
- Mixing: sinusoidal oscillation
- Power: 110/220 Volts, 50/60 Hz
- Weight: 95kg