



Activo-Darwin LS Peptide Synthesizer

The Activo-Darwin Peptide Synthesizer is an economical semi-automated instrument for the synthesis of very high quality peptides on an increased scale.

Key Features

- High quality peptides
- Any scale from 1.0 mmole to 20.0 mmoles
- Easy to use; use existing or define your own protocols
- Automates the resin washing and deprotection steps of synthesis
- Performs any Fmoc or t-Boc chemistries
- Green chemistry compatible
- Optional Fmoc removal monitoring via UV
- Safe to use, instrument is totally enclosed
- Glass reactors
- · Use commercially available resins and reagents



Easy to use touch screen interface



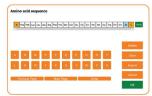
Scale: 4 mmol Peptide Supply Scale: 4 mmol Peptide

- Synthesis: conventional room temperature Resin: Rink MBHA, 0.64 mmol/g

 Double coupling PyBOP/DIEA in throughout
- DMF, 3 eq. amino acids and 2.8 eq. PyBOP Cleavage: 94% TFA, 2.5% EDT, 2.5% H20 and 1% TIS Crude purity 94%

 Precise and fast solvent delivery and washing
 - Efficient inversion mixing
 - Nitrogen bubbling mixing





Ease of Use

- Very easy to use touch screen display
- Enter the sequence, fill in quantity and resin and press run
- Software generated worksheet tells the user what to prepare
- Free choice of chemistry, present and future
- Logfile of each synthesis
- Easy cleave system direct from the reactor
- Email notifications



Chemistry

- Fmoc or t-Boc
- In situ or pre-activation
- Green chemistries
- Coupling reagents HBTU, HCTU, HATU, TBTU, PyBOP, DIC, COMU, etc
- Use any resins: polystyrene or PEG
- Use any protocols
- Synthesize any length peptides







1000mL reactor with cleavage

Instrument Specifications	
Scale	1.0 – 20.0 mmoles
Chemistry	Fmoc or t-Boc
Activation method	Pre-activation or in situ, user selectable. HATU, HBTU, HCTU, DIC, PyBOP, etc
Reaction vessel sizes	125 mL, 250 mL, 500 mL,1000mL
Reagent/solvent bottles	4 as standard, range from 250 mL to 19 litres,
UV Monitoring	Check the Fmoc removal via UV
Mixing system	Over centre mixing with variable speed and amplitude, nitrogen bubbling
Inert atmosphere	100% throughout the system
Fluid measurement	Timed delivery
Power	Variable range from 240V/50Hz or 100V/60Hz
Logfile	Printable logfile for each synthesis run
Dimensions	Width 42 cm (17"), depth 31 cm (12"), height 60 cm (24")

Technical Support

Activotec has unsurpassed experience in the synthesis and automation processes for peptides. Activotec is totally committed to supporting its customers worldwide.

- Fast reliable service engineers and application chemists.
- Service contract options are available to suit your requirements.
- Peptide chemists are available to help with instrument application and peptide chemistry if required.
- Training is provided on site or in our facility.

Headquartered in Cambridge, UK Activotec is a producer of state-of-the-art synthesis technology providing chemists with useful and reliable peptide synthesis products.

• Peptide synthesizers, amino acids, resins and reagents.

If you would like further details of the Activo-Darwin synthesizer or any of Activotec's range of synthesis instruments or chemicals please contact our office below.



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