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**Synthesis A**

**Practical**

**Peptide**

**Synthesis A**

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**Approach**

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several others.***

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Synthesis A

***Fmoc Solid  
Phase Peptide  
Synthesis -***

***ChemPep  
Synthetic  
peptides are  
important as  
drugs and in  
research.***

***Currently, the  
method of choice  
for producing  
these  
compounds is***

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Synthesis A

***solid-phase peptide synthesis. In this nonspecialist review, we describe the scope and limitations of Fmoc solid-phase peptide synthesis. Furthermore, we provide a detailed pro ...***

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**Standard**  
**practices for**  
**Fmoc-based solid-**  
**phase peptide ...**  
**Solid phase**  
**peptide**  
**synthesis (SPPS),**  
**strategies, resins**  
**and comparison**  
**with Fmoc-**  
**strategy. General**  
**scheme of SPPS**  
**attach to linker**

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Phase Peptide  
**deprotect amino  
function couple n  
times**  
**deprotection and  
coupling ... Solid-  
Phase Synthesis,  
A practical  
guide, Marcel  
Dekker Inc.  
2000, p. 105-107  
...**

**Fmoc Solid-  
Phase Peptide**

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**Synthesis -**  
PubMed A

***We investigated the ultrasonicati on-mediated effects on the Fmoc-based solid-phase peptide synthesis (SPPS). Our study culminated with the development of an ultrasound-assisted strategy***

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Phase Peptide  
**(US-SPPS) that  
allowed for the  
synthesis of  
different  
biologically  
active peptides  
(up to 44-mer),  
with a  
remarkable  
savings of  
material and  
reaction time.  
Noteworthy,  
ultrasonic**

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Approach

***irradiation did  
not exacerbate***

***Fmoc solid-phase  
synthesis - CRB  
Discovery  
AAPPTec's Guide  
to Solid Phase  
Peptide  
Synthesis is an  
introduction to  
solid phase  
peptide***

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Phase Peptide

***synthesis It  
discusses how  
solid phase  
peptide  
synthesis is  
performed, the  
amino acid  
derivatives, resin  
and reagents  
used in peptide  
synthesis, and  
some of the  
common  
problems in solid***

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Phase Peptide  
**phase peptide  
synthesis and  
how to avoid  
them, plus also  
suggested  
procedures and  
guides to  
choosing resins  
and ...**

**Guide to Solid  
Phase Peptide  
Synthesis -  
AAPPTEC**

Page 15/45

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Phase Peptide  
Synthesis A

**Solid-Phase  
Peptide**

**Synthesis 2 TIPS**

**AND TRICKS FOR**

**SOLID PHASE**

**PEPTIDE**

**SYNTHESIS**

**FROM THE**

**EXPERTS AT**

**BACHEM List of**

**Abbreviations 05**

**Foreword 08 I**

**Introduction 08**

**1. Historical**

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Phase Peptide

**Background 08 2.**

**Fmoc or Boc? 10**

**3. Equipment 10**

**3.1. Manual**

**Synthesis 10 3.2.**

**«Quasi**

**Continuous**

**Flow» 11 3.3.**

**Fully Automated**

**SPPS 12 II Fmoc**

**Based SPPS 12 1.**

**Resins ...**

**Overview of Solid**

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Phase Peptide  
Synthesis |

**AAPPTec**

**Solid-phase  
peptide**

**synthesis The  
purpose of this  
step is to  
sequentially add  
amino acids to  
the resin to build  
a peptide chain.  
There are two  
main steps in**

Download File  
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Phase Peptide  
***coupling an  
amino to peptide  
chain. The first  
step is  
deprotecting  
Fmoc from the  
amino on the  
resin to expose  
an amine. The  
second step is  
coupling an  
activated amino  
acid to the  
exposed amine.***

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**Synthesis A  
Peptide**

**Synthesis -  
Bachem**

***Since the inception of solid-phase synthesis, heat has been used to speed up peptide assembly 277. A programmable heating block***

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Phase Peptide  
**was incorporated  
into one of the  
first Fmoc  
continuous-flow  
peptide  
synthesisers,  
LKB Biolynx,  
concomitant with  
introduction of  
Fmoc SPPS in the  
1980s. The use  
of heating has  
been recently  
reviewed 18,**

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Phase Peptide  
**278.**  
Synthesis A

**Fmoc Solid Phase  
Peptide**

**Synthesis -  
YouTube**

**Fmoc solid-phase  
synthesis. Fmoc  
chemistry was  
developed by  
Eric Atherton  
and Bob**

**Sheppard at the  
Laboratory of**

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Phase Peptide  
**Molecular  
Biology in  
Cambridge in the  
late 1970's and  
has been  
reviewed by  
Chan and White  
(Fmoc Solid  
Phase Peptide  
Synthesis - A  
Practical  
Approach. Oxford  
University Press,  
2000).**

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**Advances in  
Fmoc solid-phase  
peptide  
synthesis -  
Behrendt ...  
Fmoc  
Solid-Phase  
Synthesis of  
C-Terminal  
Peptide  
Thioesters by  
Formation of a  
Backbone**

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**Pyroglutamyl  
Imide Moiety † A.  
Pernille Tofteng  
Dr. IGM, Faculty  
of Life Sciences,  
University of  
Copenhagen,  
Thorvaldsensvej  
40, 1871  
Frederiksberg  
(Denmark), Fax:  
(+45)  
35-33-23-98**

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**Greening**

**Fmoc/tBu solid-  
phase peptide  
synthesis - Green**

...

**All peptides were  
synthesized  
using an Fmoc  
solid phase  
peptide  
synthesis (SPPS)  
protocol with  
Rink Amide-  
MBHA resins**

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Phase Peptide  
**(Novabiochem,  
Burlington, MA,  
USA) in a  
benchtop  
peptide  
synthesizer  
(Tribute ...**

**Boosting Fmoc  
Solid-Phase  
Peptide  
Synthesis by ...  
Peptides are  
gaining**

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Phase Peptide  
**considerable  
attention as  
potential drugs.  
The so-called  
Fmoc/tBu solid-  
phase synthesis  
is the method of  
choice for the  
synthesis of  
these molecules  
in both research  
and industrial  
settings. This  
synthetic**

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Practical  
Approach

**strategy involves  
a solid polymeric  
protecting group  
and allows the  
use of an excess  
of reagents to  
achieve  
quantitative  
yields.**

**Some  
Mechanistic  
Aspects on Fmoc  
Solid Phase**

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Phase Peptide  
**Peptide  
Synthesis A**

**We describe the  
Fmoc solid-phase  
synthesis of  
peptide  
thioesters based  
on the alkylation  
of the safety-  
catch  
sulfonamide  
linker with a  
protected 2-merc  
aptoethanol**

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Phase Peptide  
Synthesis A  
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***derivative. The thioester is generated on the solid phase after the peptide chain assembly as a consequence of an intramolecular N,S-acyl shift. Depending on the stability of the spacer***

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Phase Peptide  
**separating the  
sulfonamide  
linker from the  
...** Approach

***Fmoc-strategy  
Solid phase  
peptide  
synthesis (SPPS),  
Solid-phase  
synthesis. The  
established  
method for the  
production of***

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Phase Peptide  
**synthetic  
peptides in the  
lab is known as  
solid-phase  
peptide  
synthesis (SPPS).  
Pioneered by  
Robert Bruce  
Merrifield, SPPS  
allows the rapid  
assembly of a  
peptide chain  
through  
successive**

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Phase Peptide  
**reactions of  
amino acid  
derivatives on an  
insoluble porous  
support.. The  
solid support  
consists of small,  
polymeric resin  
beads ...**

**Fmoc Solid Phase  
Peptide  
Synthesis**

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Phase Peptide

***In peptide  
synthesis  
diketopiperazine  
formation is a  
notorious side-  
reaction at the  
dipeptide stage  
and is  
particularly  
prone to occur in  
Fmoc based  
SPPS because of  
its mechanism.  
During the base-***

Download File  
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Phase Peptide  
***induced  
deprotection of  
the penultimate  
amino acid, the  
liberated amino  
function may  
cleave the resin  
ester linkage  
whilst forming a  
piperazinedione,  
i.e. the dipeptide  
is split off.***

**Fmoc Solid-**

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Phase Peptide  
Synthesis: A  
Practical

Approach ...

**Among the strategies for the synthesis of peptides on solid-phase, Fmoc (fluorenylmethyloxy carbonyl) and Boc (tert-butyloxycarbonyl) are most used**

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Phase Peptide  
**(Miranda and Ale-  
wood 1999;  
Hudson 1988). In  
this work, our  
focus is the Fmoc  
strategy for solid  
phase peptide  
synthesis (SPPS).  
Different  
information  
about the SPPS  
can be found in**

**Fmoc**

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Phase Peptide

**Solid-Phase  
Synthesis of**

**C-Terminal**

**Peptide ...**

**Solid-Phase**

**Peptide**

**Synthesis (SPPS)**

**Solid-phase  
synthesis is a**

**common**

**technique for**

**peptide synthesi**

**s. Usually,**

**peptides are**

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Phase Peptide

Synthesis A

Practicals

Approach

***synthesised from the carbonyl group side (C-terminus) to amino group side (N-terminus) of the amino acid chain in the SPPS method, although peptides are biologically synthesised in the opposite***

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Phase Peptide

Synthesis A

Approach

***direction in cells.***

***In peptide***

***synthesis, an***

***amino-protected***

***amino acid is ...***

***Peptide***

***synthesis -***

***Wikipedia***

***This is an***

***introduction to***

***the strategy of***

***solid phase***

***peptide***

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Phase Peptide  
**synthesis using  
Fmoc protection  
groups. For a  
high res pdf  
version of the  
figures, copy and  
pa...**

**Fmoc Solid-  
Phase Synthesis  
of Peptide  
Thioesters Using  
an ...  
Fmoc-**

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Phase Peptide  
Synthesis A

**Deprotection  
Mechanism  
Ligation and  
Fragment**

**Approach  
Condensation.  
Although solid  
phase peptide  
synthesis  
methodology has  
improved to the  
point where  
preparing  
peptides of up to  
100 amino acids**

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Phase Peptide  
**is feasible, 8  
larger peptides  
and small  
proteins, as yet,  
are not  
accessible by  
solid phase  
peptide  
synthesis alone.  
Much larger  
products can be  
assembled by  
coupling  
protected**

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**peptide  
segments in  
solution.**  
Approach

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