



## **Bio-Synthesis Releases Updated Description for Peptide Synthesis**

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Lewisville, TX, June 01, 2007 --(PR.com)-- Bio-Synthesis has released an updated description for [peptide synthesis](#); this allows peptide researchers to get a view of the broad spectrum of their capabilities:

Peptides are complex molecules and each peptide sequence is unique with regard to its chemical and physical properties. Peptides are synthesized by the solid-phase method using Fmoc chemistry on an Omega 396 multiple peptide synthesizer from Advanced ChemTech. The Core also uses an Applied Biosystems Model 431A Synthesizer for longer peptides. Synthesis is carried out at 50  $\mu$ mole, 100  $\mu$ mole or 250  $\mu$ mole scales. On an average, a synthesis scale of 100  $\mu$ moles will yield about 50-70 mg of a 10-residue peptide and 100-150 mg of a 20-residue peptide depending on the substitution rating of the resin. The peptide synthesis service provides a complete spectrum of services that includes, synthesis, cleavage, HPLC purification, peptide modifications, cyclization and mass analysis for quality assurance. Before submitting your peptide sequences to the Core, it is advisable to consider the following:

- \* Every peptide sequence synthesized is a unique one. Some peptides sequences are difficult to synthesize although, they attempt to synthesize every peptide sequence.
- \* Peptides with multiple cysteines, methionine, arginine and tryptophan residues can often be difficult to synthesize.
- \* Avoid a proline residue at the C-terminal of the peptide.
- \* The peptide will be de-protected and cleaved from the resin with 82.5-90% trifluoroacetic acid, partially purified, and lyophilized. The lyophilized material will be provided as a "crude" preparation. Turnaround time is about ten days to three weeks depending on the length of the peptide and purity level. When requested, the peptide will be purified further (see below).

Bio-Synthesis is one of the top leaders in the field of [Custom Oligos](#) and Peptide synthesis, providing high quality, efficient custom DNA and Peptides to the entire Biomedical Community since 1984. Bio-Synthesis manufactures custom peptides, oligos, antibodies, organic synthesis, analytical services and more.

For further questions please feel free to contact Bio-Synthesis at 1-800-227-0627 or visit us at [www.biosyn.com](http://www.biosyn.com).

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**Contact Information:**

Bio-Synthesis Inc.  
Jessica Castro  
972-420-8505  
jessicac@biosyn.com  
www.biosyn.com

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