



Fluorous Technologies, Inc.

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FTI News and Press Releases

Fluorous Scavenging Described in Special Issue of *Tetrahedron*

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Researchers at Fluorous Technologies, Inc. (FTI) today reported in the chemistry journal *Tetrahedron* (**2002**, 58, 3871) the first example of fluorous scavenging using FluoroFlash™ reagents and silica gel-based solid phase extraction (F-SPE). The article, entitled “Use of fluorous silica gel to separate thiol quenching derivatives in solution-phase parallel synthesis”, describes the use of a soluble fluorous thiol to remove excess electrophiles in the parallel synthesis of a tertiary amine library.

“We found that a solution-phase homogeneous quenching reaction required less amount of scavenging agent as compared to solid-bound scavengers,” said Dr. Wei Zhang, Senior Scientist at FTI. “In addition, the quenching reaction using fluorous thiol was found to be 5-10 times faster than that of a polymer-supported thiol. This combination of stoichiometric control and speed makes fluorous scavenging an economical alternative for combinatorial and medicinal chemists looking to drive reactions to completion through the use of excess reagents.”

Thirty-five other peer-reviewed articles from around the world accompany the FTI article in this special issue *Tetrahedron*, all focusing on research activities in the area of fluorous chemistry. “It is extremely gratifying to see the strong level of interest and activity in the chemical community with regards to fluorous chemistry”, said Dr. Philip E. Yeske, Chief Operating Officer of FTI. “This issue of *Tetrahedron* is an excellent general reference and a glimpse into the future of applied fluorous chemistry. For instance, we soon plan to commercialize the fluorous scavenging technology in the form of various nucleophilic and electrophilic reagents. It is an honor to be associated with the journal, through both our scientific contribution as well as the company advertisement on the back cover.”

FTI (www.fluorous.com) is a Pittsburgh-based chemical technology company focused on the life sciences market. For further information, please contact FTI at 412-826-3050 or info@fluorous.com.