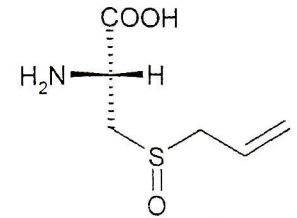


**INDOFINE Chemical Company, Inc.**

121 Stryker Lane, Bldg. 30  
 Hillsborough, NJ 08844 USA  
 Phone: (908) 359-6778; Fax: (908) 359-1179

**H P L C****Batch: 10****ALLIIN****027253S****IDENTIFICATION**

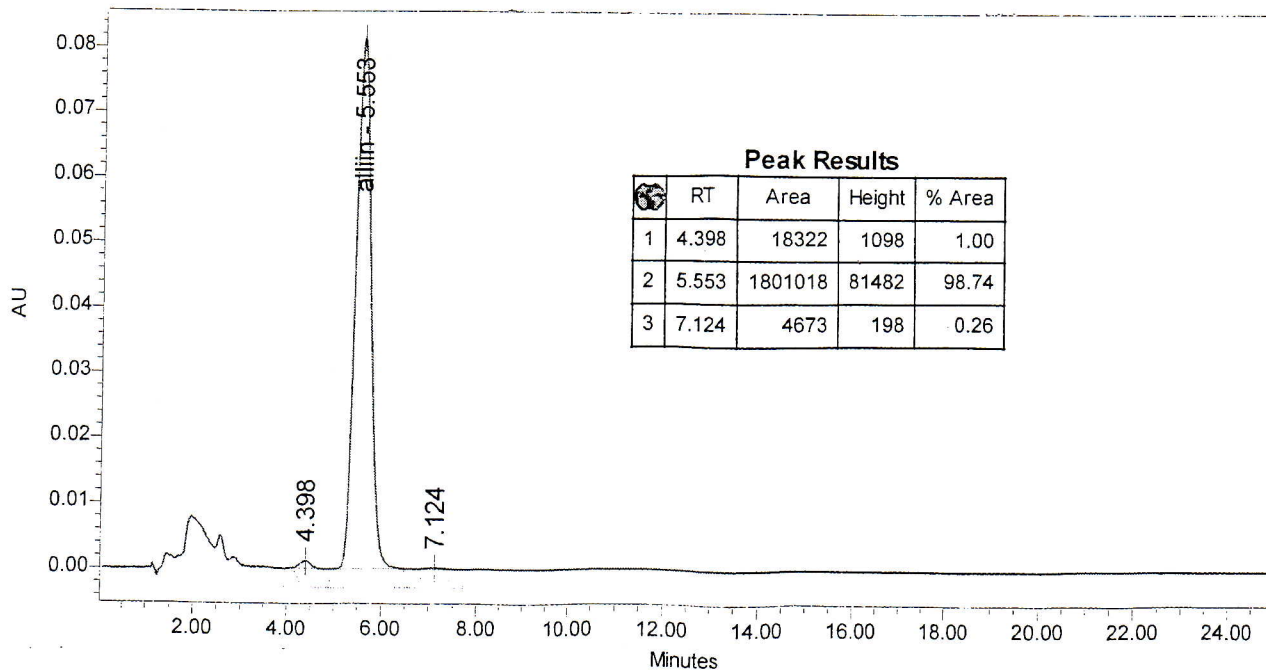
CAS number [556-27-4]  
 Chemical family Sulfur derivatives  
 Chemical names (S)-3-(Allylsulfinyl)-L-alanine  
 S-allyl-L-cysteine sulfoxide  
 Molecular formula C<sub>6</sub>H<sub>11</sub>NO<sub>3</sub>S  
 Molecular weight 177.22

**CERTIFICATE OF ANALYSIS**

Appearance White powder  
 Melting point 152-153°C  
 Thin layer chromatography support Silicagel  
 solvent n-Butanol/n-propanol/acetic acid/water (3/1/1/1:V/V/V/V)  
 detection Ninhydrine  
 Moisture 2.3%  
 [α]<sub>D</sub> + 62° (c=0.8 in water)  
 Storage Store at room temperature in a dry and dark place.

**HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**

Column Nova pak C18® (100 x 8 mm), particle size 4 μm  
 Solvent THF / 1.4 Dioxane / Acetonitrile / Buffer phosphate pH7.1 (1/30/4/85 , V/V/V/V)  
 Flow rate 1ml/mn  
 Detector UV visible 337 nm  
 Sample solvent Derivatization: 18ml of a solution: (140mg o-phthaldialdehyde in 5ml methanol + 100 μl tert-butylthiol) in 50 ml buffer ph9  
 2 ml of a solution: 15 mg of alliin in 20 ml methanol/water (50/50 , V/V)



Product no-certified. Assay by an HPLC method.

Date of last QC-recheck : 02/09/07

*The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.*