

ABSTRACTS

Isolation of (-)S-Allyl-L-cysteine from Garlic

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Tracer technique was successfully used for the detection of S-allyl-L-cysteine in garlic. To isolate the new amino acid in large quantities, the neutral garlic amino acids were absorbed on Dowex 50 resin at pH 2.4 and fractionated with 0.2M ammonium formate buffer (pH 3.15). Five kg. of garlic yielded approximately 50mg. of pure S-allyl-L-cysteine, m.p. 218° (decomp.), $[\alpha]_D^{20} = -8.7^\circ$. Chemical constants were identical with those of synthesized S-allyl-L-cysteine.