



The Chemical Constitution of the Proteins; Analysis (Paperback)

By Robert Henry Aders Plimmer

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Excerpt: . prepared from sec. butyliodide and sodiumacetoacetic ester: --CH, CH, CO CH. CO CH, I L II HCNa +1-C--CH.CH, = NaI + HC--CH--CH2--CH, I I I COOC2He H COOC2He This compound, when treated with nitrosyl sulphate was decomposed into acetic acid and a-oximino-sec-butylic acid, which, on reduction with zinc dust and hydrochloric acid in alcohol, gave a 60 per cent, yield of dl-isoleucine: --CH3 I NOH NH2 CO 11 I I /CH, II /CH3 I /CH- H--C--CH-C--CH(-H--C--CH(I C2H6 I C2H6 J C H5 COOC2H8 COOH COOH Locquin has since obtained d-isoleucine from this racemic compound which was identical with Ehrlich's natural product, and this therefore has the above constitution. By the same series of reactions which Fischer and Schmitz employed in the preparation of leucine, F. Ehrlich synthesised isoleucine in 1908 from malonic ester and secondary butyliodide, i.e., according to the following scheme:...

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