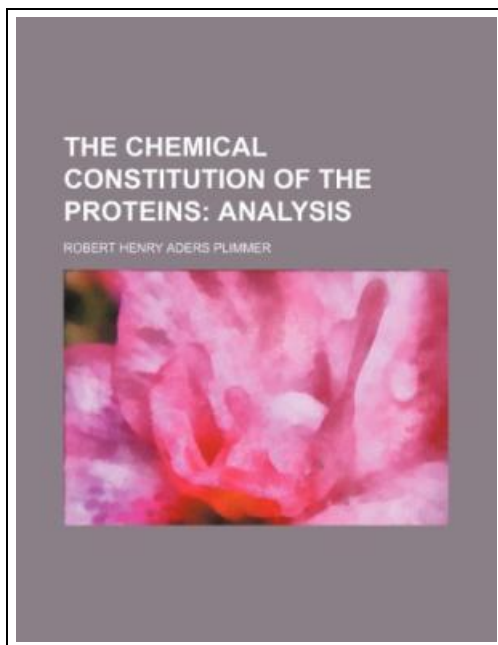


The Chemical Constitution of the Proteins; Analysis



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THE CHEMICAL CONSTITUTION OF THE PROTEINS; ANALYSIS



Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 edition. Excerpt: . prepared from sec. butylidide and sodiumacetoacetic ester: -CH₃, CH₃, CO CH₃. CO CH₃, I L II HCNa +1--C--CH₃.CH₃ = NaI + HC--CH--CH₂--CH₃, I I I COOC₂H₅ H COOC₂H₅ This compound, when treated with nitrosyl sulphate was decomposed into acetic acid and a-oximino-sec-butylacetic acid, which, on reduction with zinc dust and hydrochloric acid in alcohol, gave a 60 per cent, yield of dl-isoleucine: --CH₃I NOH NH₂ CO 11 I I /CH₃, II /CH₃ I /CH- H--C--CH₃-C--CH₃(H--C--CH₃) I C₂H₆ I C₂H₆ J C H₅ COOC₂H₅ 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 butylidide, i.e., according to the following scheme: --C₂H₆. CHI. CH₃, + CHNa(COOC₂H₅)₂-C₂H₅. CH(CH₃). CH(COOC₂H₅)₂ C₂H₆. CH(CH₃). CH(COOH), -C₂H₅, CH(CH₃). CBr(COOH)₂ C₂H₅. CH(CH₃). CHBr. COOH-C₂H₅. CH(CH₃). CH(NH₂). COOH The same synthesis has also been carried out by Brasch and Friedmann. Phenylalanine. In a note published in 1879 Schulze mentioned a substance which he had obtained from the seedlings oiLupinus luteus; two years later he and Barbieri showed that this substance had the composition C₉H₉N₂O₂, and they described it as phenylamidopropionic acid, because, on oxidation, it gave benzoic acid, and, when heated, it lost carbon dioxide and gave a base, C₈H₉N. In its properties it closely resembled Tiemann...



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