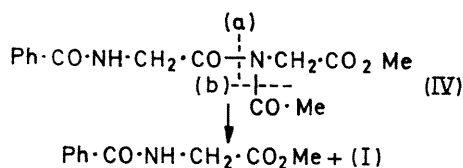




It is of interest that the acylation of the diamide (I) by this method took place preferentially at one amide bond. There was evidence of traces of the di-acyl derivative (and



the corresponding tetrapeptide derived by insertion of two residues) but the main product was the mono-*N*-acyl

derivative of the amide function linking the two glycine residues. This assignment of structure was supported by the identification of *N*-benzoylglycine methyl ester ('a' cleavage) and the peptide (I) ('b' cleavage) as major products of methanolysis of the *N*-acetylated peptide (IV).<sup>3</sup>

This indication of preferential insertion, and some earlier evidence of preferential silylation of peptides,<sup>4</sup> enhances the interest in the possibility of using this reaction sequence for the modification of polypeptides and proteins.

We thank Unilever Ltd. for a research studentship (to K.H.H.).

(Received, July 6th, 1971; Com. 1147.)

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