skeletal muscle of the foetal rabbit, both monomethyl- and trimethyl-lysine are present in the foetal form of the protein, although possibly in somewhat decreased amounts.

The methyl-lysines are restricted to the heavy-chain fraction, for they could not be identified in the low-molecular-weight components of myosin. Thus the analytical data suggest that there is less than one ϵ -*N*-monomethyl-lysine residue/heavy chain in each molecule of myosin and subfragment I. Methyl-lysines could not be detected in actin or tropomyosin.

On incubation of homogenates of skeletal muscle from 4-day-old rabbit with ^{14}C -labelled *S*-adenosyl-methionine radioactively labelled ϵ -*N*-monomethyl-

dimethyl- and trimethyl-lysines were identified in the myofibrillar and soluble sarcoplasmic protein fractions. Methylation of the myofibrillar protein fraction probably occurred subsequent to polypeptide synthesis, for protein synthesis was strongly inhibited in the system by puromycin whereas the incorporation of ^{14}C -labelled methyl groups from *S*-adenosyl-methionine into 3-methylhistidine and into the methyl-lysines was little affected.

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DEMONSTRATION

A Versatile System, with Digital Display and Print-out, for Automatic Sampling and Measurement of Extinctions over the Range 200–800 nm

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The system demonstrated comprises two spectrophotometers (Hitachi-Perkin-Elmer model 139) that are 'fed' from an automatic sampling device (Struers Samplomat). The output from the spectro-

photometers is coupled to a digital display unit (Satt Photolog) and a printer.

Such an arrangement enables rapid sampling (360/h), and extinction measurements can be made at any desired wavelength. The digital display unit also embodies the provision for the insertion of up to four separate predetermined factors, so that results may be obtained in terms of concentration units instead of extinction.

The ease of operation makes this system particularly suited to teaching or research laboratories, where considerable numbers of repetitive extinction measurements have to be made.