

ABSTRACTS OF COMMUNICATIONS.

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Estimations of the transport numbers in solutions of sodium and potassium caseinate.

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Experimental work has been carried out to determine according to the well known method of Hittorf the transport numbers of caesium, sodium and potassium caseinates. Constancy of pH was maintained throughout the experiment by the aid of a non-polarizable cathode. Casein was deposited on a platinum wire which constituted the anode. The experimental results indicate that in the solutions which were employed the current is carried by the caesium, sodium or the potassium as cations and the casein as anion. These results are not in harmony with the hypothesis which postulates that the protein ionizes to give two complex protein ions rather than an inorganic ion and a protein ion. The experimental data will be published in detail in the near future.