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**Fixation of Amino Acids and Oligopeptides by Freez-drying in  
Polyacrylamide Gel Electrophoresis\***

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Fixation of amino acids and oligopeptides in polyacrylamide gel after electrophoresis was performed successfully by freeze-drying. Lyophilization of a fabric reinforced polyacrylamide gel slab after electrophoresis provided a dried gel film which absorbed ninhydrin solution quickly and smoothly, and improved the limit of detection for amino acids and oligopeptides. Thus, 21 amino acids and 9 small peptides (Mr 189—1045) were fixed by freeze-drying after electrophoresis (pH 2.0), and detected with ninhydrin reagent in a good sensitivity (0.1—5  $\mu$ g).

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\* 本報告は *Electrophoresis*, 10 (7), 498—500 (1989) に発表.