Phosphofructokinase (PFK) activity is approximately 40-50 ml/mg and cm². The cold ethanol precipitate is centrifuged at 4°C on whatman No. 40 sheets. The supernatant is removed and the precipitate is dissolved in 0.01 M Tris-HCl, pH 8.0. The reaction is initiated by the addition of DPNH to the extract. Background DPNH oxidation is also occasionally encountered before the addition of extract.

The procedure of Kikkawo (1963 Ann. Rep. Sci. Works, Fac. Sci. Osaka Univ. 11:41) previously used for the production of zymograms of Drosophila amylase has been modified for use with *Neurospora crassa*. A glass plate is evenly with the ride of pipette. The electrophoretic medium consists of 2% Difco Agar agar 1 mm thick is pipetted onto the frosted side of the prewarmed plate and is evenly with the ride of pipette. A layer tempered agar 1 mm thick is pipetted onto the frosted side of the prewarmed plate and is evenly with the ride of pipette. The plate is then immersed in a 4 mg/ml soluble starch solution for 15 min, followed by a brief water rinse. Digestion of the starch is allowed to occur for 20 min in a 37°C incubator, after which the agar is stained in a solution of 0.3% KI-0.03% I₂. Two types of bands will Lx visible: clear (against dark blue) and faint pink. The former are the Y-amylases (gluc-amylases) and the latter are the a-amylaser.