

Order 1 TA + α-Amylase $\xrightarrow[\text{for 15 min}]{\text{Incubation at 4}^\circ\text{C}}$ Mixture of TA and α-amylase + Gelatinized starch \longrightarrow Start reaction at 37°C

Order 2 TA + Pre-gelatinized starch $\xrightarrow[\text{for 15 min}]{\text{Incubation at 37}^\circ\text{C}}$ Mixture of TA and gelatinized starch + α-Amylase \longrightarrow Start reaction at 37°C

Order 3 TA + Raw starch $\xrightarrow[\text{for 20 min}]{\text{co-gelatinization at 90}^\circ\text{C}}$ Co-gelatinized TA-starch + α-Amylase \longrightarrow Start reaction at 37°C