

## **ABSTRACT**

*Mixing tank is part of the TPAD reactor that one of its functions serve as a temporary storage area of substrate that have been chopped up into a solid slurry homogeneous mixture. Since this tank hold temporary substrate, then the substrate is conditioned so that no fermentation process which is characterized by the absence of pH reduction to be more acidic by means of cooling process to take place. Low temperature storage will extend the life span of the network in the substrate because it inhibits the activity of microorganisms. Therefore, this research proves whether the low temperature storage does not decrease pH.*

*Keywords: mixing tank, low temperature, fermentation*