

## **Abstract**

This study determined effect of on the drying rate of tilapia in a solar tunnel dryer. Tilapia fish was split into pieces of 4 cm by 3 cm by 9 mm and soaked into four brine concentrations varying between 0-15%. Moisture content was evaluated by oven drying method, while air temperatures were with an automated data logger. The moisture content of fish reduced as brine concentration increased. The effective diffusion coefficient varied between  $5.061 \cdot 10^{-11}$  and  $3.323 \cdot 10^{-11}$  m<sup>2</sup>/s as brine concentration increased, and it decreased with increase in brine concentration.