













**Table 1. Water Quality During Transport of Neon Tetra Fish**

Duration Factor	Concentration (ml/L)	Temperature (° C)		DO (mg/L)		pH		Ammonia (mg/L)	
		<i>Pre</i>	<i>Post</i>	<i>Pre</i>	<i>Post</i>	<i>Pre</i>	<i>Post</i>	<i>Pre</i>	<i>Post</i>
			Control		25.5		8.7		6.08
3 hours	0.1	25	25.4	4.8	8.5	6.91	5.76	0.018	0.0028
	0.2		25.3		8.1		5.84		0.0031
	0.3		25.5		8.3		5.67		0.0041
	Control		25.2		8.3		5.40		0.0036
5 hours	0.1	25	25.1	5.5	8.4	6.79	5.60	0.005	0.0024
	0.2		25.2		8.4		5.45		0.0028
	0.3		25.1		8.3		5.64		0.0031
	Control		25.2		8.3		5.40		0.0036
Feasibility According to Literature: SNI (2013)			25-27 °C		>4 mg/L		6-7		<0.02 mg/L

Based on research that has been done, the temperature before transportation ranges from 25 °C and after transportation ranges from 25.1-25.5 °C. The increase in post-transport temperature will increase the respiration process in fish, the increase in temperature can lead to an increase in the metabolic rate [21].

Based on the above statement, it can be concluded that the temperature in transportation in this research is still feasible for maintenance and during transportation because the results obtained in this research can still be tolerated because temperature fluctuations are not too extreme and not much different from the feasibility level.

Based on (**Table 1**) the solubility value of oxygen (DO) was measured using a DO meter. In determining the DO value before and after transportation. The solubility value of oxygen before transportation is 4.8-5.5 mg/L. The average value of oxygen solubility after being transported is 8.1-8.7 mg/L. DO values obtained before transportation are still in the recommended range. Optimal dissolved oxygen for neon tetra fish is >4 mg/L [22].

The optimal value for the degree of acidity (pH) for the survival of neon tetra fish is 6-7. Based on these statements, the pH value obtained during research before transportation and after transportation is still at an optimal level to support fish survival. The average pH value before transportation is 6.79-6.91 and after transportation is 5.40-6.08.

Ammonia value is obtained by taking water samples before and after transportation and then tested at the Laboratory of Fisheries Resource Management, Faculty of Fisheries, Marine Sciences, Padjadjaran University using the spectrophotometric method. The average value of ammonia before transportation ranges from 0.005-0.018, while after transportation is 0.0024-0.0126. The feasibility level of ammonia for the survival of neon tetra in rearing media should be less than 0.2 mg/L. The ammonia value obtained in this research is still categorized as safe because the value obtained is still far from the value of the ammonia feasibility level.

## CONCLUSION

Based on the research that has been done, it can be concluded that:

1. The best concentration of nutmeg oil for the transportation of neon tetra fish at a duration of 5 hours with a concentration of 0.1 ml/L resulted in an induction time of 1.26 minutes, a conscious recovery time of 3.10 minutes, a post transport survival rate of 93.33% and after 7 days maintenance by 85.00%.
2. The water quality parameters after transportation show a temperature of 25.5 °C, DO of 8.7 mg/L, a pH of 6.08 and ammonia of 0.0126 mg/L.

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