

Mass cultivation of *Moina* sp. has overcome dependence on imported products such as brine shrimp and tubifex worms which come from wild catches and not available throughout the year. However, in the implementation of cultivation, there is a main factor causing harvest failure because of the competitor organism namely *Brachionus* sp.

*Chlorella* sp. and *Moina* sp. mass production conducted on outdoor area with the fertilizer composition in Table 1. The *Brachionus* sp. as competitor organism which controlled by using 0.25 – 0.50 ppt of salt in the *Moina* sp. cultivation media has been proven to be able to eradicate and inhibit the hatching of *Brachionus* sp. eggs without inhibiting *Moina* sp. and *Chlorella* sp. development.

The *Moina* sp. mass production by using *Chlorella* sp. as media through innovation in controlling Rotifera / *Brachionus* sp. as a competitors and the technology innovation for mass cultivation of *Chlorella* sp. in the open areas ( $2 \times 10^7$  cell mL<sup>-1</sup> abundance) throughout the year without carrying out pure culture in laboratory has multiple production yields (harvest between 2- 4 kg per 3000 L media yield per 5-7 days cultivation) and reduced the limiting factor for harvest failure due to Rotifera / *Brachionus* sp.

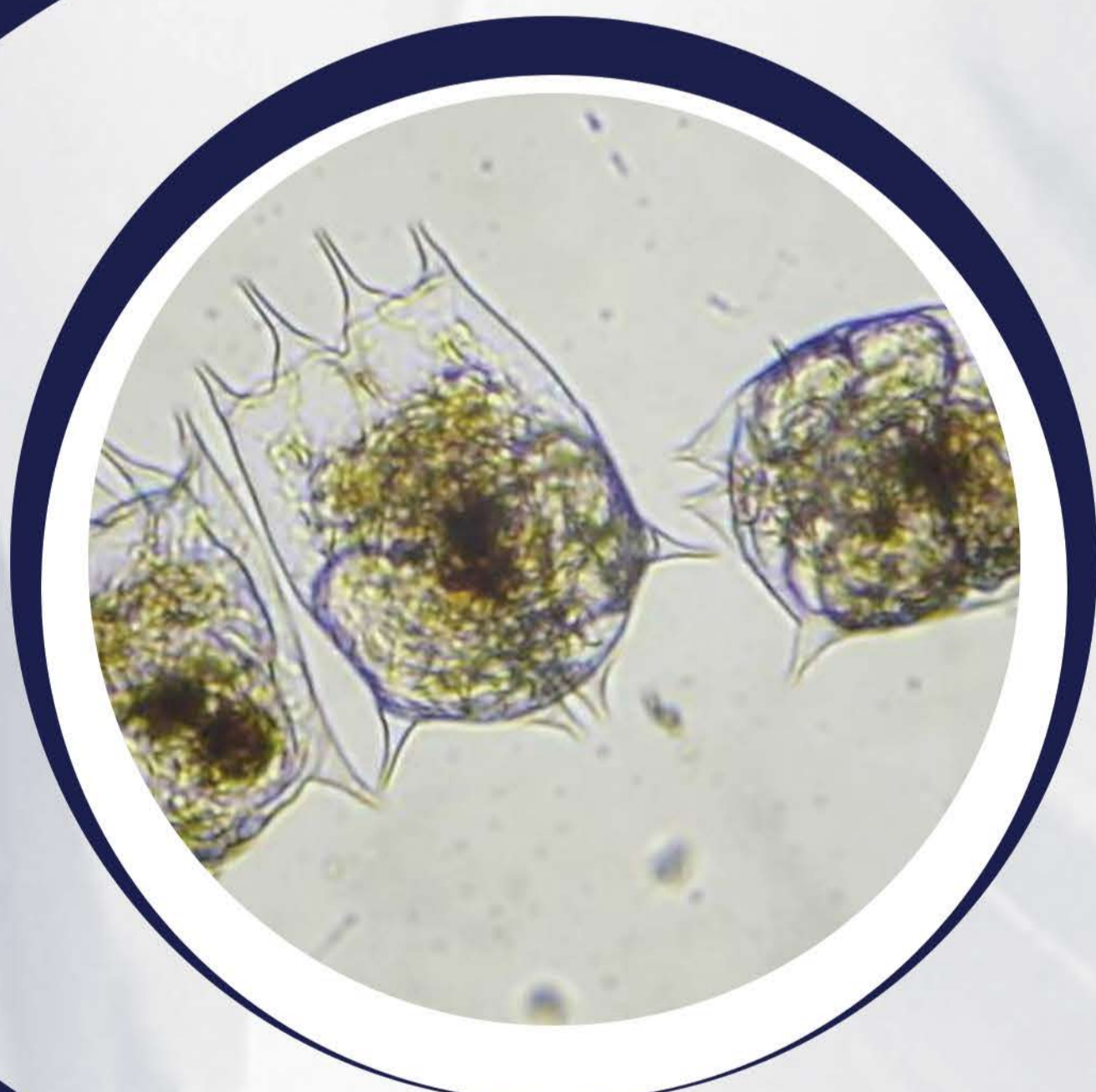
A live/fresh or frozen *Moina* sp. (content 65,90 % of proteins) can be used all of the time as nursery food for Patin, catfish, snakehead, gouramy, etc in hatcheries and ponds . The using of *Moina* sp. can increase the uniformity of fish larva size and minimize the risk of fish disease attack thereby increasing the survival rate up to 80%.

Table 1. Composition of *Moina* sp. dan *Chlorella* sp. cultivation fertilizer

Component	Cultivation		Remark
	<i>Chlorella</i> sp. (g 1000 L <sup>-1</sup> )	<i>Moina</i> sp. (g 1000L <sup>-1</sup> )	
Urea	1000	100	-
TSP	250	25	-
Salt	-	250-500	-
Dolomite	100	100	-
Fish meal/trash fish/shrimp	100	100	±45% of protein
Soybean meal	100	100	±32% of protein
Rice bran	200	100	±8% of protein
<i>Chlorella</i> sp.	200 L	50-200 L	Min. $1 \times 10^6$ cell mL <sup>-1</sup> of density
<i>Moina</i> sp.	-	50-200	Min. 100 ind L <sup>-1</sup> of density



*Moina* sp.



*Brachionus* sp



*Moina* sp. with  
*Brachionus* sp. competitors