



ENVIKIT FOR AMMONIUM

ENVIKIT 04Am 0.1 - 10 mg/L



- Thank you for choosing products of Binh Lan ENVIBIOCHEM. Please read instruction carefully before proceeding to ensure accurate results.
- Reagents contain strong base. Immediately flush skin with plenty of water in case of contact.



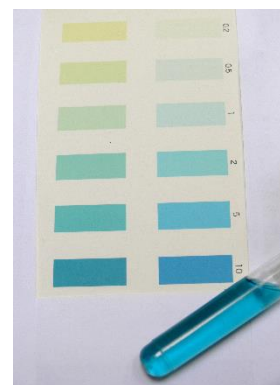
1. Fill the tube half with sample water. Add 5 drops of Reagent 1.



2. Add 5 drops of Reagent 2. Cap the tube and shake well. Water turns yellow. Wait 3 min.



3. Add 1 spoon of Reagent 3. Cap the tube and shake vigorously until complete dissolution. Water turns to green. Wait 10 minutes for complete color development.



4. Find best matched color in color chart. Record level of total ammonium. Look at Table 1 for the threshold of total ammonium for shrimp pond.

- Exposure test tube to sunlight helps faster color development.
- Keep color chart in box, avoid direct sunlight.
- Percentage of free ammonium NH_3 is given in Table 2.

$$\text{Free ammonium } \text{NH}_3 = \text{Total ammonium} \times \text{percentage of free ammonium} : 100$$

Table 1. Threshold for Total ammonium in shrimp pond (mg/L)

pH	7	7,5	8	8,5	9	9,5
16 °C	34	11	3	1	0,4	0,2
18 °C	29	10	3	1	0,3	0,1
20 °C	26	8	2	0,9	0,3	0,1
22 °C	22	7	2	0,8	0,3	0,1
24 °C	19	6	1	0,7	0,2	0,1
26 °C	17	5	1	0,6	0,2	0,1
28 °C	14	5	1	0,5	0,2	0,1
30 °C	13	4	1	0,5	0,2	0,1
32 °C	11	4	1	0,4	0,2	0,1

Table 2. Percentage of free ammonium (%)

pH	7	7,5	8	8,5	9	9,5
16 °C	0,29	0,95	2,9	8,7	23	48
18 °C	0,34	1,10	3,3	9,9	25	52
20 °C	0,39	1,3	3,8	11	28	56
22 °C	0,46	1,5	4,4	13	31	59
24 °C	0,52	1,7	5,0	15	35	62
26 °C	0,60	1,9	5,7	16	38	66
28 °C	0,69	2,2	6,5	18	41	69
30 °C	0,80	2,5	7,4	21	45	72
32 °C	0,91	2,9	8,4	23	48	74

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