

Table 4 Accumulation patterns of metals ( $\mu\text{gg}^{-1}$ ) in fish organs during 96-hr LC<sub>50</sub> and lethal concentrations exposure of metal mixture (Fe+Ni)

Metals	Fish species	Organs							
		Kidney	Liver	Skin	Muscle	Fins	Gills	Bones	*Means
LC <sub>50</sub>									
Fe	<i>C. catla</i>	114.89±0.23 c	115.47±2.41 d	464.80±1.88 a	54.02±2.4 bcd	48.43±9.75 b	2.02±2.49 e	18.21±0.48 e	116.84±159.49 c
	<i>L. rohita</i>	112.01±0.54 c	352.87±1.72 b	291.56±1.13 b	284.68±3.15 a	56.31±1.09 b	121.34±2.24 d	219.47±2.41 ab	205.46±110.81 b
	<i>C. mrigala</i>	602.92±4.02 b	487.08±5.64 a	8.02±1.04 e	19.84±2.48 cd	54.40±2.54 b	572.91±3.65 a	65.17±5.01 de	258.62±279.42 a
	<i>C. idella</i>	123.11±1.69 c	96.58±2.75 d	164.78±1.09 c	10.43±1.46 d	116.90±1.50 a	259.81±1.79 c	86.38±1.81 cde	122.57±76.62 c
	<i>H. molitrix</i>	722.33±2.52 a	182.83±1.77 c	19.29±1.77 de	51.04±1.85 bcd	56.33±1.28 b	399.72±3.13 b	125.34±2.52 b	222.41±255.13 b
	Overall means	335.05±302.0 a	246.97±167 b	189.69±192.8 c	84.00±113.78 d	66.48±28.37 d	271.16±225.0 b	102.91±75.76 d	
	Ni	<i>C. catla</i>	326.67±2.89 a	191.67±2.89 c	27.08±0.41 e	51.80±0.64 c	49.22±0.84 c	96.20±1.12a	14.25±0.76 d
	<i>L. rohita</i>	48.33±1.91 b	80.00±1.00 d	58.92±2.15 d	60.37±3.90 b	39.92±1.61 e	31.92±0.09 d	113.05±2.68 a	61.79±27.45 e
	<i>C. mrigala</i>	156.67±2.89 c	430.91±0.19 a	163.50±1.25 d	41.23±1.26 d	104.79±0.95 a	84.33±2.69 b	25.83±3.25 c	143.90±136.92 a
	<i>C. idella</i>	282.22±2.55 b	207.33±2.52 b	74.20±2.48 c	83.63±2.65 a	61.00±2.00 b	74.16±3.21 c	59.63±2.23 b	120.31±88.12 b
	<i>H. molitrix</i>	158.33±1.67 c	28.44±2.22 e	298.14±1.98 a	24.75±1.33 e	44.10±1.65 d	32.46±0.61 d	1.37±0.06 e	84.07±107.23 d
	Overall means	194.44±110.98 a	187.67±155.33 b	124.37±109.54 c	52.36±21.96 f	59.98±26.23 e	63.82±29.90 d	42.83±44.83 g	
Lethal concentrations									
Fe	<i>C. catla</i>	214.33±1.54 e	240.83±2.37 c	532.67±5.51 a	116.97±0.60 b	110.90±1.44 e	82.37±2.41 e	2.96±1.20 e	185.86±172.55 e
	<i>L. rohita</i>	328.33±3.82 c	517.42±2.02 b	387.55±2.41 b	387.54±2.05 a	128.09±1.45 c	305.55±0.69 d	351.33±1.16 a	343.69±117.09 b
	<i>C. mrigala</i>	995.67±1.03 a	532.61±1.49 a	37.37±0.83 e	385.28±1.28 a	167.57±0.91 b	919.87±3.59 a	105.83±1.61 d	449.17±386.87 a
	<i>C. idella</i>	232.68±1.69 d	194.26±2.75 e	308.82±1.09 c	27.69±1.46 d	296.04±1.50 a	409.37±1.79 c	212.66±1.81 c	240.22±118.70 d
	<i>H. molitrix</i>	815.00±3.31 b	228.33±3.8 d	102.89±1.95 d	106.91±1.21 c	114.99±1.95 d	466.27±2.41 b	289.85±1.63 b	303.46±119.27 c
	Overall means	517.20±362.62 a	342.69±159.0 c	273.86±203.89 d	204.88±169.2 e	163.52±77.3 g	436.68±307.34 b	192.52±140.13 f	
	Ni	<i>C. catl</i>	462.50±3.31 a	212.96±2.31 c	155.08±1.13 d	119.85±2.23 d	85.72±1.52 e	232.41±1.55 a	111.43±1.51 d
	<i>L. rohita</i>	121.57±1.48 e	123.44±1.79 e	150.38±2.00 e	104.27±2.73 e	166.30±2.73 c	153.38±3.17 c	231.17±0.76 a	150.07±41.77 e
	<i>C. mrigala</i>	340.71±3.57 c	586.66±1.67 a	244.42±1.28 b	219.05±1.65 b	259.65±3.05 a	220.06±1.35 b	134.72±1.94 c	286.47±145.79 a
	<i>C. idella</i>	427.67±1.53 b	371.66±1.09 b	172.89±1.67 c	185.37±1.37 c	156.95±2.35 d	106.93±2.86 d	140.58±0.76 b	223.15±124.19 c
	<i>H. molitrix</i>	265.41±0.96 di	145.25±2.46 d	538.05±2.92 a	414.67±2.08 a	263.85±1.30 b	152.03±2.27 c	105.07±1.19 e	269.19±157.86 b
	Overall means	323.57±136.58 a	287.99±193.19 b	252.17±164.21 c	208.64±124.37 d	186.50±75.45 e	172.96±52.28 f	144.60±50.67 g	
Comparison of means									
Metals	Mean accumulation in fish body ( $\mu\text{gg}^{-1}$ )								
	* LC <sub>50</sub>	* Lethal concentrations							
Fe	185.18±194.36 a	304.48±236.36 a							
Ni	103.64±98.73 b	225.20±127.60 b							

Note: Means with the same letters in a single row and \* column are statistically similar at p<0.05); *C. catla*=*Catla catla*, *L. rohita*=*Labeo rohita*, *C. mrigala*=*Cirrhina mrigala*, *C. idella*=*Ctenopharyngodon idella*, *H. molitrix*=*Hypophthalmichthys molitrix*