**Table S1: Detailed *C. riparius* sample list.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Specimens** | **Pre-exposed** **(3 generations)** |  **Exposed****(14 days)** | **Time/ Dose range** | **Number** |
| ***Developmental stages*** |  |  |  |
| Egg ropes | n.a | n.a |  <1h post laying | 4 |
| Egg ropes | n.a | n.a |  24h post laying | 4 |
| Egg ropes | n.a | n.a |  48h post laying | 4 |
| Egg ropes | n.a | n.a |  72h post laying | 4 |
|  |  |  |  |  |
| 1st instar larvae  | n.a | n.a | <1 day post hatching | 4 |
| 2nd instar larvae | n.a | n.a | 4 day post hatching | 4 |
| 3rd instar larvae | n.a | n.a | 8 day post hatching | 4 |
| 4th instar larvae | n.a | n.a | 14 days post hatching | 4 |
|  |  |  |  |  |
| Pupae | n.a | n.a | 14-16 days post hatching | 4 |
|  |  |  |  |  |
| Adult males | n.a | n.a | <1h post emerging | 4 |
| Adult males | n.a | n.a | 24h post emerging | 4 |
| Adult males | n.a | n.a | 48h post emerging | 4 |
| Adult males | n.a | n.a | 60h post emerging | 4 |
|  |  |  |  |  |
| Adults females | n.a | n.a | <1h post emerging | 4 |
| Adults females | n.a | n.a | 24h post emerging | 4 |
| Adults females | n.a | n.a | 48h post emerging | 4 |
| Adults females | n.a | n.a | 60h post emerging | 4 |
| ***Toxicant exposed larvae*** |  |  |  |
| Larvae | n.a | Cadmium | 0.5, 1.0, 2.0, 4.0 mg Cd / kg dw | 4 |
| Larvae | n.a | Copper | 10, 20, 30, 40 mg Cu/ kg dw | 4 |
| Larvae | n.a | Tributyltin | 0.5, 1.0, 2.0, 4.0 mg Sn / kg dw | 4 |
| Larvae | n.a | Phenanthrene | 50, 100, 200, 400 mg Phe/ kg dw | 4 |
|  |  |  |  |  |
| Larvae | Cadmium | Cadmium | 0.5, 1.0, 2.0, 4.0 mg Cd / kg dw | 4 |
| Larvae | Copper | Copper | 10, 20, 30, 40 mg Cu/ kg dw | 4 |
| Larvae | Tributyltin | Tributyltin | 0.5, 1.0, 2.0, 4.0 mg Sn / kg dw | 4 |
| Larvae | Phenanthrene | Phenanthrene | 50, 100, 200, 400 mg Phe/ kg dw | 4 |

\* n.a.: not applicable