**SUPPLEMENTAL INFORMATION**

**On the half-life of Thiocyanate in the plasma of the marine fish Amphiprion ocellaris: implications for cyanide detection**

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Figure S1. Chromatograms of SCN in the plasma of *Amphiprion oscellaris* after exposure to 100 ppm SCN for 11 days. Depuration times from top to bottom: 2 hours, 8 hours, 10 ppm standard and 49 hours. SCN peak is observed at 5.0 minutes



Figure S2. Chromatograms of SCN in the plasma of *Amphiprion oscellaris* after exposure to 50 ppm CN for 45 seconds. Depuration times from top to bottom: 2 hours, 15 hours, 24 hours, 48 hours and 0.1 ppb standard. SCN peak is observed at 5.3 minutes

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| Table S1. Mean (SD) Plasma SCNconcentrations in *A. ocellaris* exposed to 50 ppm CN for 20, 45 and 60 seconds followed by 41 days depuration. | | | |
| Depuration  Time (days) | Plasma SCN concentration (ppm) | | |
| 20 second exposure | 45 second exposure | 60 second exposure |
| 0.10 | 0.6 (0.2) | 1.1 (0.2) |  |
| 0.16 | 0.65 (0.05) | 1.2 (0.3) |  |
| 0.27 | 0.8 (0.1) | 1.7 (0.4) | 1.6 (0.4)a |
| 0.49 | 1.3 (0.1) | 2.3 (0.2) | 1.8 (0.3)a |
| 0.62 | 1.4 (0.1) | 2.3 (0.5) |  |
| 1.0 | 0.9 (0.1) | 2.0 (0.6) | 2.0 (0.4)b |
| 2.0 | 0.6 (0.1) | 1.2 (0.3)b |  |
| 3.0 | 0.7 (0.4) | 2.5 (0.4) c |  |
| 3.5 |  | 0.8 (0.1)a |  |
| 4.0 | 0.6 (0.3) | 0.63 (0.07) |  |
| 6.0 | 0.62 (0.06) | 0.83 (0.08) c |  |
| 10 | 0.6 (0.1) | 0.8 (0.3) |  |
| 25 | 0.354 (0.002)a | 0.5 (0.1)ac |  |
| 41 | 0.172 (0.009)a | 0.3 (0.1)ac |  |
| Control | <0.05d | | |
| Note.n = 4. Exclusions noted.  a Sample size of 2 at: 25 and 41 days post 20 and 45 second exposure, at 3.5 days post 45-second exposure and at 0.27 and 0.49 days post 60-second exposure.  b Sample size of 3 at: 2.0 days post 45 second exposure and at 1.0 days post 60-second exposure.  c Data from fish in one exposure group (g5) were elimated from analysis due accidental prolonged exposure.  d Controls were below the LOQ of 10 ppb for 1:5 diluted plasma. | | | |

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| Table S2. Plasma SCNconcentrations in *A. ocellaris* exposed to 100 ppmSCNfor 11 days followed by 48 days depuration. | |
| Time post exposure (days) | Plasma SCNconcentration (ppm) |
| 0.010 | 162 (29) |
| 0.090 | 181 (13)a |
| 0.18 | 220 (31) |
| 0.35 | 178 (43) |
| 0.59 | 114 (58) |
| 0.70 | 42 (17) |
| 1.0 | 71 (34) |
| 2.0 | 31 (16) |
| 4.0 | 8 (10) |
| 8.0 | 0.2 (0.2) |
| 14 | 0.26 (0.09) |
| 48 | <0.05 |
| Control | <0.05b |
| Note. Values are given as means (SD), all with sample size of 3. Exclusion noted.  a Sample size of 2 at 0.090 days post exposure.  b Controls were below the LOQ of 10 ppb for 1:5 diluted plasma. | |