**Table S1: Residual Concentrations (mg/l) of Atrazine at the Lowest Tested Concentration (I) after Biodegradation Using Different Marine Bacterial Isolates for 7 Exposure Days**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exposure Time (Days)** | **Cultures** | | | | | | | | | | | | | | | | | | | | | | | | |
| **Control** | **1** | **2** | | **3** | | **4** | | **5** | | | **6** | **7** | **8** | | **9** | | **10** | | **11** | | **12** | | **13** | |
| **Zero Time** | **109.0** | **Concentration of Atrazine (mg/l)** | | | | | | | | | | | | | | | | | | | | | | | |
| **1** | **100.8\*** | **106.5\*** | | **101.2\*** | | **105.9\*** | | **97.7\*** | | **92.4\*** | **70.2\*** | | **106.0\*** | | **104.3\*** | | **94.3\*** | | **102.5\*** | | **55.7\*** | | **108.2\*** | | **102.6\*** |
| **±SE** | **0.57** | **0.61** | | **0.72** | | **0.37** | | **0.895** | | **0.34** | **0.69** | | **0.28** | | **1.13** | | **0.26** | | **0.32** | | **1.38** | | **0.34** | | **1.38** |
| **2** | **96.8** | **98.4** | | **93.6** | | **103.5** | | **75.3** | | **87.8** | **58.9** | | **95.4** | | **83.1** | | **83.8** | | **99.6** | | **49.1** | | **90.8** | | **86.2** |
| **±SE** | **0.89** | **0.87** | | **1.64** | | **1.12** | | **2.04** | | **1.38** | **1.79** | | **1.15** | | **2.56** | | **1.13** | | **1.01** | | **2.65** | | **0.75** | | **2.36** |
| **3** | **92.6** | **90.2** | | **86.0** | | **101.2** | | **52.9\*\*** | | **83.2** | **47.6** | | **85.0** | | **62.0** | | **73.3** | | **96.8** | | **42.5** | | **72.1** | | **69.6** |
| **±SE** | **0.37** | **0.43** | | **0.92** | | **0.77** | | **1.03** | | **1.12** | **1.09** | | **1.01** | | **1.42** | | **0.98** | | **0.72** | | **1.09** | | **0.34** | | **0.66** |
| **4** | **93.6** | **81.1** | | **92.7** | | **94.9** | | **53.9** | | **80.3** | **44.1** | | **87.8** | | **59.4** | | **69.1** | | **83.6** | | **54.6** | | **64.2** | | **62.8** |
| **±SE** | **0.61** | **0.57** | | **0.89** | | **0.63** | | **0.75** | | **0.75** | **0.86** | | **0.61** | | **0.86** | | **0.75** | | **1.01** | | **0.81** | | **0.46** | | **0.49** |
| **5** | **94.5** | **72.0** | | **99.5** | | **88.5** | | **55.0** | | **77.3** | **40.5** | | **90.6** | | **56.9** | | **64.9** | | **70.4** | | **66.6** | | **56.3** | | **55.9** |
| **±SE** | **3.17** | **4.36** | | **5.45** | | **3.34** | | **3.08** | | **2.68** | **4.21** | | **1.67** | | **2.57** | | **3.58** | | **7.99** | | **3.35** | | **3.35** | | **2.07** |
| **6** | **91.8\*\*** | **94.6** | | **97.6** | | **81.7** | | **79.1** | | **49.5** | **34.2** | | **73.0** | | **55.3** | | **47.9** | | **67.6** | | **52.4** | | **54.4** | | **63.8** |
| **±SE** | **0.86** | **1.29** | | **3.17** | | **2.04** | | **1.29** | | **2.11** | **1.35** | | **1.7** | | **1.12** | | **1.93** | | **1.71** | | **0.95** | | **1.41** | | **1.99** |
| **7** | **97.4** | **68.8\*\*** | | **85.9\*\*** | | **46.9\*\*** | | **68.3** | | **40.6\*\*** | **32.0\*\*** | | **72.9\*\*** | | **35.0\*\*** | | **26.7\*\*** | | **56.9\*\*** | | **26.8\*\*** | | **53.2\*\*** | | **54.3\*\*** |
| **±SE** | **0.57** | **0.63** | | **0.66** | | **0.54** | | **0.52** | | **0.98** | **0.63** | | **0.84** | | **0.12** | | **0.35** | | **0.69** | | **0.64** | | **0.73** | | **0.46** |

**\* The Highest RC & \*\* The Lowest RC for Each Tested Isolate**

**Results are Expressed as Mean of 3 Replicates ± SE**

**Table S2: Residual Concentrations (mg/l) of Atrazine at the Intermediate Tested Concentration (II) after Biodegradation Using Different Marine Bacterial Isolates for 7 Exposure Days**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exposure Time (Days)** | **Cultures** | | | | | | | | | | | | | |
| **Control** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** |
| **Zero Time** | **299.0** | **Concentration of Atrazine (mg/l)** | | | | | | | | | | | | |
| **±SEM** | **2.02** |
| **1** | **103.1\*** | **83.1\*** | **141.9\*** | **75.7\*** | **186.9\*** | **70.8\*** | **140\*** | **52.6\*** | **227.6\*** | **53.4\*** | **65.7\*** | **276.4\*** | **71.5\*** | **285.3\*** |
| **±SEM** | **0.57** | **0.61** | **0.72** | **0.37** | **0.89** | **0.34** | **0.69** | **0.28** | **1.13** | **0.26** | **0.32** | **1.38** | **0.34** | **1.38** |
| **2** | **70.2** | **69.6** | **130.8** | **89.2** | **161.8** | **110.1** | **141.3** | **93.1** | **227.6** | **90.1** | **80.3** | **210.9** | **60.0** | **188.3** |
| **±SEM** | **0.89** | **0.87** | **1.64** | **1.12** | **2.04** | **1.38** | **1.79** | **1.15** | **2.56** | **1.13** | **1.01** | **2.65** | **0.75** | **2.36** |
| **3** | **37.2** | **56.4** | **119.9** | **102.9** | **137.1** | **149.6** | **142.8** | **133.7** | **184.5** | **126.9** | **95.2** | **145.6** | **48.6** | **91.5** |
| **±SEM** | **0.37** | **0.43** | **0.92** | **0.77** | **1.03** | **1.12** | **1.09** | **1.01** | **1.42** | **0.98** | **0.72** | **1.09** | **0.34** | **0.66** |
| **4** | **55.6** | **82.3** | **127.4** | **92.8** | **106.8** | **107.7** | **123.5** | **87.6** | **184.6** | **107.8** | **146.5** | **114.1** | **66.0** | **71.2** |
| **±SEM** | **0.61** | **0.57** | **0.89** | **0.63** | **0.75** | **0.75** | **0.86** | **0.61** | **0.86** | **0.75** | **1.01** | **0.81** | **0.46** | **0.49** |
| **5** | **73.9** | **108.3** | **135.1** | **82.9** | **76.7** | **66.0\*\*** | **104.4** | **41.5\*\*** | **63.3** | **88.8** | **197.7** | **82.4** | **83.4** | **51.0** |
| **±SEM** | **3.17** | **4.36** | **5.45** | **3.34** | **3.08** | **2.68** | **4.21** | **1.67** | **2.57** | **3.58** | **7.99** | **3.35** | **3.35** | **2.07** |
| **6** | **34.6\*\*** | **49.6\*\*** | **120.3** | **76.4** | **49.8\*\*** | **80.1** | **51.7\*\*** | **63.8** | **43.2** | **73.3** | **63.2** | **36.5\*\*** | **52.8\*\*** | **75.5** |
| **±SEM** | **0.86** | **1.29** | **3.17** | **2.04** | **1.29** | **2.11** | **1.35** | **1.7** | **1.12** | **1.93** | **1.71** | **0.95** | **1.41** | **1.99** |
| **7** | **53.9** | **64.9** | **58.8\*\*** | **60.1\*\*** | **50.1** | **82.2** | **53.1** | **70.9** | **8.6\*\*** | **30.3\*\*** | **58.6\*\*** | **54.49** | **61.4** | **40.3\*\*** |
| **±SEM** | **0.57** | **0.63** | **0.66** | **0.54** | **0.52** | **0.98** | **0.63** | **0.84** | **0.12** | **0.35** | **0.69** | **0.64** | **0.73** | **0.46** |

**\* The Highest RC & \*\* The Lowest RC for Each Tested Isolate**

**Results are Expressed as Mean of 3 Replicates ± SE**

**Table S3: Residual Concentrations (mg/l) of Atrazine at the Highest Tested Concentration (III) after**

**Biodegradation Using Different Marine Bacterial Isolates for 7 Exposure Days**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exposure Time (Days)** | **Cultures** | | | | | | | | | | | | | | | | | | | | | | | |
| **Control** | **1** | **2** | | **3** | | **4** | **5** | | **6** | | **7** | | | **8** | **9** | | **10** | | **11** | | | **12** | **13** |
| **Zero Time** |
| **438.8** | **Concentration of Atrazine (mg/l)** | | | | | | | | | | | | | | | | | | | | | | |
| **1** | **401.8\*** | **428.7\*** | | **395.7\*** | | **436.3\*** | **403.6\*** | | **426.4\*** | | **429.5\*** | | **248.2\*** | **406.8\*** | | | **359.4\*** | | **363.9\*** | | **409.4\*** | **419.2\*** | | **405.6\*** |
| **±SE** | **3.4** | **3.7** | | **3.4** | | **3.7** | **3.4** | | **3.6** | | **3.7** | | **2.1** | **3.5** | | | **3.1** | | **3.1** | | **3.5** | **3.6** | | **3.5** |
| **2** | **379.8** | **379.5** | | **379.9** | | **423.2** | **401.0** | | **419.3** | | **408.2** | | **195.9** | **388.0** | | | **344.9** | | **307.0** | | **373.4** | **366.9** | | **344.0** |
| **±SE** | **4.1** | **4.1** | | **4.1** | | **4.6** | **4.4** | | **4.6** | | **4.4** | | **2.1** | **4.2** | | | **3.7** | | **3.3** | | **4.1** | **4** | | **3.7** |
| **3** | **357.9** | **330.2** | | **364.1** | | **410.8** | **398.8** | | **412.2** | | **387.7** | | **144.3** | **368.7** | | | **330.6** | | **249.2** | | **337.6** | **313.8** | | **281.7** |
| **±SE** | **4.7** | **4.3** | | **4.8** | | **5.4** | **5.2** | | **5.4** | | **5.1** | | **1.9** | **4.8** | | | **4.3** | | **3.3** | | **4.4** | **4.1** | | **3.7** |
| **4** | **361.7** | **304.9** | | **324.9** | | **391.9** | **360.9** | | **332.5** | | **322.8** | | **122.2** | **320.0** | | | **294.5** | | **223.7** | | **248.8** | **269.8** | | **249.6** |
| **±SE** | **4.4** | **3.7** | | **3.9** | | **4.7** | **4.4** | | **4** | | **3.9** | | **1.5** | **3.9** | | | **3.6** | | **2.7** | | **3** | **3.3** | | **3.0** |
| **5** | **365.7** | **280.0** | | **286.4** | | **374.7** | **323.2** | | **254.6** | | **259.9** | | **101.0** | **270.7** | | | **258.3** | | **197.9** | | **160.2** | **223.7** | | **216.0** |
| **±SE** | **2.6** | **2** | | **2** | | **2.6** | **2.3** | | **1.8** | | **1.8** | | **0.7** | **1.9** | | | **1.8** | | **1.4** | | **1.1** | **1.6** | | **1.5** |
| **6** | **364.8\*\*** | **237.6\*\*** | | **221.2** | | **357.9** | **309.2** | | **175.7** | | **238.0** | | **146.4** | **207.9** | | | **155.0** | | **131.0** | | **107.9** | **164.5** | | **82.6** |
| **±SE** | **1.7** | **1.1** | | **1** | | **1.6** | **1.4** | | **0.8** | | **1.1** | | **0.7** | **1** | | | **0.7** | | **0.6** | | **0.5** | **0.8** | | **0.4** |
| **7** | **386.6** | **238.6** | | **190.7\*\*** | | **318.8\*\*** | **299.2\*\*** | | **115.0\*\*** | | **187.4\*\*** | | **54.4\*\*** | **154.3\*\*** | | | **126.8\*\*** | | **118.4\*\*** | | **75.6\*\*** | **106.3\*\*** | | **63.9\*\*** |
| **±SE** | **4.0** | **2.4** | | **1.9** | | **3.3** | **3.1** | | **1.2** | | **1.9** | | **0.6** | **1.6** | | | **1.3** | | **1.2** | | **0.8** | **1.1** | | **0.7** |

**\* The Highest RC & \*\* The Lowest RC for Each Tested Isolate**

**Results are Expressed as Mean of 3 Replicates ± SE**