Summary of Histopathologic Findings for Follicular Cell Hypertrophy

2-EHHB

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Treatment Conc. [Mean Measured]  (µg/L) | Replicate | Mild | | Moderate | |
| No. Findings/ No. in Group | Proportion | No. Findings/ No. in Group | Proportion |
| 0.0 [<MQL] | A | 2/5 | 0.40 | 0/5 | 0.00 |
| B | 3/5 | 0.60 | 0/5 | 0.00 |
| C | 1/5 | 0.20 | 0/5 | 0.00 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 10/20 | 0.50 | 0/20 | 0.00 |
| 3.6 [4.58] | A | 3/5 | 0.60 | 0/5 | 0.00 |
| B | 0/5 | 0.00 | 0/5 | 0.00 |
| C | 1/5 | 0.20 | 0/5 | 0.00 |
| D | 2/5 | 0.40 | 1/5 | 0.20 |
| Overall | 6/20 | 0.30 | 1/20 | 0.05 |
| 10.9 [10.3] | A | 4/4 a | 1.00 | 0/4 a | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 2/5 | 0.40 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 0/5 | 0.00 |
| Overall | 13/19 a | 0.68 | 0/19 a | 0.00 |
| 33 [25.0] | A | 2/5 | 0.40 | 0/5 | 0.00 |
| B | 2/5 | 0.40 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 1/5 | 0.20 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 12/20 | 0.60 | 1/20 | 0.05 |
| 100 [61.9] | A | 3/5 | 0.60 | 0/5 | 0.00 |
| B | 3/5 | 0.60 | 1/5 | 0.20 |
| C | 1/5 | 0.20 | 0/5 | 0.00 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 11/20 | 0.55 | 1/20 | 0.05 |
|  |  |  |  |
| 4-NP |  |  |  |
| 0.0  [<MQL] | A | 4/5 | 0.80 | 0/5 | 0.00 |
| B | 5/5 | 1.00 | 0/5 | 0.00 |
| C | 1/5 | 0.20 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 1/5 | 0.20 |
| Overall | 13/20 | 0.65 | 1/20 | 0.05 |
| 1.8  [1.82] | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 1/5 | 0.20 |
| C | 4/5 | 0.80 | 0/5 | 0.00 |
| D | 5/5 | 1.00 | 0/5 | 0.00 |
| Overall | 18/20 | 0.90 | 1/20 | 0.05 |
| 5.5  [5.17] | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 3/5 | 0.60 | 0/5 | 0.00 |
| C | 2/5 | 0.40 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 0/5 | 0.00 |
| Overall | 13/20 | 0.65 | 0/20 | 0.00 |
| 16.5  [12.5] | A | 3/5 | 0.60 | 0/5 | 0.00 |
| B | 1/5 | 0.20 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 0/5 | 0.00 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 12/20 | 0.60 | 0/20 | 0.00 |
| 50  [48.2] | A | 2/5 | 0.40 | 0/5 | 0.00 |
| B | 5/5 | 1.00 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 0/5 | 0.00 |
| D | 1/5 | 0.20 | 1/5 | 0.20 |
| Overall | 12/20 | 0.60 | 1/20 | 0.05 |
| Summary of Histopathologic Findings for Follicular Cell Hypertrophy- Cont’d  4-OP | | | |
| Treatment Conc. [Mean Measured]  (µg/L) | Replicate | Mild | | Moderate | |
| No. Findings/ No. in Group | Proportion | No. Findings/ No. in Group | Proportion |
|  |  |  |  |  |  |
| 0.0  [<MQL] | A | 3/5 | 0.60 | 1/5 | 0.20 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 0/5 | 0.00 | 0/5 | 0.00 |
| D | 2/5 | 0.40 | 0/5 | 0.00 |
| Overall | 9/20 | 0.45 | 1/20 | 0.05 |
| 3.60  [5.43] | A | 3/5 | 0.60 | 2/5 | 0.40 |
| B | 5/5 | 1.00 | 0/5 | 0.00 |
| C | 2/5 | 0.40 | 2/5 | 0.40 |
| D | 5/5 | 1.00 | 0/5 | 0.00 |
| Overall | 15/20 | 0.75 | 4/20 | 0.20 |
| 10.9  [13.5] | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 5/5 | 1.00 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 1/5 | 0.20 |
| D | 4/5 | 0.80 | 1/5 | 0.20 |
| Overall | 18/20 | 0.90 | 2/20 | 0.10 |
| 33.0  [39.8] | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 2/5 | 0.40 | 0/5 | 0.00 |
| C | 1/5 | 0.20 | 0/5 | 0.00 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 12/20 | 0.60 | 0/20 | 0.00 |
| 100  [103] | A | 3/5 | 0.60 | 2/5 | 0.40 |
| B | 5/5 | 1.00 | 0/5 | 0.00 |
| C | 3/5 | 0.60 | 1/5 | 0.20 |
| D | 1/5 | 0.20 | 1/5 | 0.20 |
| Overall | 12/20 | 0.60 | 4/20 | 0.20 |
| B | 2/5 | 0.40 | 0/5 | 0.00 |
| C | 2/5 | 0.40 | 0/5 | 0.00 |
| D | 1/5 | 0.20 | 0/5 | 0.00 |
| Overall | 6/20 | 0.30 | 0/20 | 0.00 |
| BBP |  |  |  |  |  |
|  |  |  |  |  |  |
| 0.0 [<MQL] | A | 1/5 | 0.20 | 0/5 | 0.00 |
| B | 2/5 | 0.40 | 0/5 | 0.00 |
| C | 2/5 | 0.40 | 0/5 | 0.00 |
| D | 1/5 | 0.20 | 0/5 | 0.00 |
| Overall | 6/20 | 0.30 | 0/20 | 0.00 |
| 3.60 [3.50] | A | 2/5 | 0.40 | 0/5 | 0.00 |
| B | 3/5 | 0.60 | 0/5 | 0.00 |
| C | 5/5 | 1.00 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 0/5 | 0.00 |
| Overall | 13/20 | 0.65 | 0/20 | 0.00 |
| 10.9 [11.5] | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 3/5 | 0.60 | 0/5 | 0.00 |
| D | 4/5 | 0.80 | 0/5 | 0.00 |
| Overall | 16/20 | 0.80 | 0/20 | 0.00 |
| 33 [34.1] | A | 2/5 | 0.40 | 0/5 | 0.00 |
| B | 2/5 | 0.40 | 0/5 | 0.00 |
| C | 3/5 | 0.60 | 0/5 | 0.00 |
| D | 1/5 | 0.20 | 0/5 | 0.00 |
| Overall | 8/20 | 0.40 | 0/20 | 0.00 |
| 100 [105] | A | 0/2 | 0.00 | 0/2 | 0.00 |
| B | NS b | NS | NS | NS |
| C | 2/4 | 0.50 | 2/4 | 0.50 |
| D | 2/5 | 0.40 | 2/5 | 0.40 |
| Overall | 4/11 | 0.36 | 4/11 | 0.36 |
|  |  |  |  |  |  |
| Summary of Histopathologic Findings for Follicular Cell Hypertrophy- Cont’d  DBP | | | | | |
| Treatment Conc. [Mean Measured]  (µg/L) | Replicate | Mild | | Moderate | |
| No. Findings/ No. in Group | Proportion | No. Findings/ No. in Group | Proportion |
| 0.0 [<MQL] | A | 0/5 | 0.00 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 0/5 | 0.00 |
| D | 2/5 | 0.40 | 0/5 | 0.00 |
| Overall | 10/20 | 0.50 | 0/20 | 0.00 |
| **3.6 [4.58]** | A | 4/5 | 0.80 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 4/5 | 0.80 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 0/5 | 0.00 |
| Overall | 15/20 | 0.75 | 0/20 | 0.00 |
| **10.9 [10.3]** | A | 4/5 | 0.80 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 5/5 | 1.00 | 0/5 | 0.00 |
| D | 5/5 | 1.00 | 0/5 | 0.00 |
| Overall | 18/20 | 0.90 c | 0/20 | 0.00 |
| **33 [25.0]** | A | 3/5 | 0.60 | 0/5 | 0.00 |
| B | 4/5 | 0.80 | 0/5 | 0.00 |
| C | 5/5 | 1.00 | 0/5 | 0.00 |
| D | 5/5 | 1.00 | 0/5 | 0.00 |
| Overall | 17/20 | 0.85 c | 0/20 | 0.00 |
| **100 [61.9]** | A | 5/5 | 1.00 | 0/5 | 0.00 |
| B | 3/5 | 0.60 | 0/5 | 0.00 |
| C | 5/5 | 1.00 | 0/5 | 0.00 |
| D | 3/5 | 0.60 | 2/5 | 0.40 |
| Overall | 16/20 | 0.80 c | 2/20 | 0.10 c |

a Thyroid gland tissue was not recovered from one tadpole in replicate A of treatment group 10.9 [10.3] µg/L of 2-EHHB

b No section was available

c Significantly different than control (RSCABS, p<0.05)

Summary of Histopathologic Findings for Follicular Cell Hyperplasia

2-EHHB

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Treatment [Mean Measured Conc.]  (µg/L) | | Replicate | | Mild | | | |
| No. Findings/ No. in Group | | Proportion | |
| 0.0 [<MQL] | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 1/20 | | 0.05 | |
| 3.6 [4.58] | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 1/20 | | 0.05 | |
| 10.9 [10.3] | | A | | 0/4 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 0/19 a | | 0.00 | |
| 33 [25.0] | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | |
| D | | 2/5 | | 0.40 | |
| Overall | | 3/20 | | 0.15 | |
| 100 [61.9] | | A | | 0/5 | | 0.00 | |
| B | | 1/5 | | 0.20 | |
| C | | 1/5 | | 0.20 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 2/20 | | 0.10 | |
| 4-NP | |  | |  | |
|  | |  | |
| 0.0 | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 1/20 | | 0.05 | |
| 1.8 | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 0/20 | | 0.00 | |
| 5.5 | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 1/20 | | 0.05 | |
| 16.5 | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 0/20 | | 0.00 | |
| 50 | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 1/20 | | 0.05 | |
|  | |  | |  | |  | |
|  | |  | |  | |  | |
| Summary of Histopathologic Findings for Follicular Cell Hyperplasia-Cont’d | | | | | | | |
| Treatment Conc. [Mean Measured]  (µg/L) | | Replicate | | Mild | | | | Moderate | | | |
| No. Findings/ No. in Group | | Proportion | | No. Findings/ No. in Group | | Proportion | |
| 4-OP | |  | |  | |  | |  | |  | |
| 0.0  [<MQL] | | A | | 2/5 | | 0.40 | | 0/5 | | 0.00 | |
| B | | 2/5 | | 0.40 | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| Overall | | 6/20 | | 0.30 | | 0/20 | | 0.00 | |
| 3.60  [5.43] | | A | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| B | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| D | | 2/5 | | 0.40 | | 0/5 | | 0.00 | |
| Overall | | 5/20 | | 0.25 | | 0/20 | | 0.00 | |
| 10.9  [13.5] | | A | | 0/5 | | 0.00 | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | | 0/5 | | 0.00 | |
| Overall | | 1/20 | | 0.05 | | 0/20 | | 0.00 | |
| 33.0  [39.8] | | A | | 2/5 | | 0.40 | | 0/5 | | 0.00 | |
| B | | 2/5 | | 0.40 | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| D | | 2/5 | | 0.40 | | 2/5 | | 0.40 | |
| Overall | | 7/20 | | 0.35 | | 2/20 | | 0.10 | |
| 100  [103] | | A | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| B | | 3/5 | | 0.60 | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | | 0/5 | | 0.00 | |
| D | | 3/5 | | 0.60 | | 0/5 | | 0.00 | |
| Overall | | 8/20 | | 0.40 | | 0/20 | | 0.00 | |
| BBP | |  | |  | |
|  | |  | |
| 0.0 [<MQL] | | A | | 2/5 | | 0.40 | |
| B | | 2/5 | | 0.40 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 4/20 | | 0.20 | |
| 3.60 [3.50] | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 0/20 | | 0.00 | |
| 10.9 [11.5] | | A | | 0/5 | | 0.00 | |
| B | | 0/5 | | 0.00 | |
| C | | 1/5 | | 0.20 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 1/20 | | 0.05 | |
| 33 [34.1] | | A | | 1/5 | | 0.20 | |
| B | | 0/5 | | 0.00 | |
| C | | 0/5 | | 0.00 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 2/20 | | 0.10 | |
| 100 [105] | | A | | 0/2 | | 0.00 | |
| B | | NS b | | NS | |
| C | | 1/4 | | 0.25 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 1/11 | | 0.09 | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
| Summary of Histopathologic Findings for Follicular Cell Hyperplasia-Cont’d  DBP | | | | | | | |
| Treatment [Mean Measured Conc.]  (µg/L) | | Replicate | | Mild | |
| No. Findings/ No. in Group | | Proportion | |
| 0.0 [<MQL] | | A | | 2/5 | | 0.40 | |
| B | | 3/5 | | 0.60 | |
| C | | 1/5 | | 0.20 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 7/20 | | 0.35 | |
| 3.6 [4.58] | | A | | 1/5 | | 0.20 | |
| B | | 0/5 | | 0.00 | |
| C | | 2/5 | | 0.40 | |
| D | | 1/5 | | 0.20 | |
| Overall | | 4/20 | | 0.20 | |
| 10.9 [10.3] | | A | | 1/5 | | 0.20 | |
| B | | 1/5 | | 0.20 | |
| C | | 1/5 | | 0.20 | |
| D | | 2/5 | | 0.40 | |
| Overall | | 5/20 | | 0.25 | |
| 33 [25.0] | | A | | 0/5 | | 0.00 | |
| B | | 2/5 | | 0.40 | |
| C | | 0/5 | | 0.00 | |
| D | | 0/5 | | 0.00 | |
| Overall | | 2/20 | | 0.10 | |
| 100 [61.9] | | A | | 0/5 | | 0.00 | |
| B | | 1/5 | | 0.20 | |
| C | | 1/5 | | 0.20 | |
| D | | 4/5 | | 0.80 | |
| Overall | | 6/20 | | 0.30 | |

a Thyroid gland tissue was not recovered from one tadpole in replicate A of treatment group 10.9 µg/L for 2-EHHB

b No section was available