*Tabel 1. The values for the assessed biochemical parameters in rats*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Assessed biochemical parameter / Group | Control | AAPh | AAPh + C | AAPh + C + Mg | AAPh + C + Zn |
| ALT(UI / L) | **69.57 ± 2.57** | **2475.14 ± 284.38***P* < 0.001 *vs*. control | **2964.57 ± 343.91***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh | **2558.43 ± 251.97***P* < 0.001 *vs*. control NS *vs*. AAPh 0.01 < *P* < 0.05 *vs*. AAPh + C | **2284.14 ± 205.55***P* < 0.001 *vs*. control NS *vs*. AAPh*P* < 0.001 *vs*. AAPh + C0.01 < *P* < 0.05 *vs*. AAPh + C + Mg |
| AST(UI / L) | **154.43 ± 13.20** | **578.86 ± 61.56***P* < 0.001 *vs*. control | **650.43 ± 59.33***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh | **585.71 ± 28.61***P* < 0.001 *vs*. control NS *vs*. AAPh 0.01 < *P* < 0.05 *vs*. AAPh + C | **583.57 ± 29.31***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh0.01 < *P* < 0.05 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| LDH(UI / L) | **456.43 ± 117.74** | **3309 ± 287.64***P* < 0.001 *vs*. control | **3463.86 ± 228.73***P* < 0.001 *vs*. control NS *vs*. AAPh | **3139.57 ± 302.39***P* < 0.001 *vs*. control NS *vs*. AAPh 0.01 < *P* < 0.05 *vs*. AAPh + C | **2806.14 ± 201.28***P* < 0.001 *vs*. control*P* < 0.001 *vs*. AAPh*P* < 0.001 *vs*. AAPh + C0.01 < *P* < 0.05 *vs*. AAPh + C + Mg |
| GGT(x 100UI / L ) | **33.57 ± 5.97** | **67.14 ± 6.12***P* < 0.001 *vs*. control | **69.85 ± 5.73***P* < 0.001 *vs*. control NS *vs*. AAPh | **60.86 ± 7.10***P* < 0.001 *vs*. control NS *vs*. AAPh 0.01 < *P* < 0.05 *vs*. AAPh + C | **59.71 ± 4.79***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh0.001 < *P* < 0.01 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| ALP(x 100UI / L ) | **105 ± 6.66** | **166.57 ± 19.04***P* < 0.001 *vs*. control | **205 ± 15.21***P* < 0.001 *vs*. control0.001 < *P* < 0.01 *vs*. AAPh | **189.57 ± 9.24***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh0.01 < *P* < 0.05 *vs*. AAPh + C | **188.29 ± 12.75***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh0.01 < *P* < 0.05 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| Ureea(mg / dL) | **31.43 ± 2.82** | **63.14 ± 6.15***P* < 0.001 *vs*. control | **71.57 ± 7.00**0.01 < *P* < 0.05 *vs*. AAPh | **61.57 ± 4.72***P* < 0.001 *vs*. control NS *vs*. AAPh 0.001 < *P* < 0.01 *vs*. AAPh + C | **60.28 ± 4.31***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh0.001 < *P* < 0.01 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| Creatinine(mg / dL) | **5.91 ± 1.17** | **8.42 ± 0.80***P* < 0.001 *vs*. control | **9.33 ± 0.59***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh | **7.66 ± 1.11**0.01 < *P* < 0.05 vs. control NS *vs*. AAPh 0.001 < *P* < 0.01 *vs*. AAPh + C | **60.28 ± 4.31**0.01 < *P* < 0.05 vs. control 0.01 < *P* < 0.05 *vs*. AAPh0.001 < *P* < 0.01 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| SOD (pg / mL) | **24.71 ± 3.45** | **19.29 ± 1.50**0.001 < *P* < 0.01 *vs*. control | **17.42 ± 1.27***P* < 0.001 *vs*. control 0.01 < *P* < 0.05 *vs*. AAPh | **19.57 ± 1.90**0.001 < *P* < 0.01 vs. control NS *vs*. AAPh 0.01 < *P* < 0.05 *vs*. AAPh + C | **20.43 ± 2.30**0.01 < *P* < 0.05 vs. control 0.01 < *P* < 0.05 *vs*. AAPh0.01 < *P* < 0.05 *vs*. AAPh + CNS *vs*. AAPh + C + Mg |
| GPX (pg / mL) | **31.57 ± 3.60** | **26 ± 4.08**0.01 < *P* < 0.05 vs. control | **23,42 ± 3.46**0.001 < *P* < 0.01 *vs*. control NS vs. AAPh | **26.43 ± 5.71**NS *vs*. control NS vs. AAPh NS vs. AAPh + C | **27.71 ± 3.77**NS *vs*. control NS vs. AAPh0.01 < *P* < 0.05 *vs*. AAPh + CNS vs. AAPh + C + Mg |