|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Rats aged 16 weeks at sacrifice - Treatment by subcutaneous injections | | | | | | |
|  | **Controls** | | | **Metformin** | | |
| Organs | **B12 per**  **gram wet tissue** | **B12**  **per organ** | | **B12 per**  **gram wet tissue** | | **B12**  **per organ** |
| Kidney | 1350  [1200-1650] | 2440  [2150-2540] | | 1390  [1070-1700] | | 2320  [1860-2650] |
| Liver | 78  [55-114] | 1010  [690-1260] | | 83  [73-122] | | 1020  [890-1570] |
| Heart | 72  [46-174] | 129  [94-255] | | 83  [50-120] | | 145  [92-170] |
| Small-bowel | 46  [20-137] | \* | | 32  [28-81] | | \* |
| Testes | 42  [29-46] | 98  [61-105] | | 44  [37-47] | | 102  [87-115] |
| Stomach | 38  [10-83] | 94  [76-187] | | 48  [20-72] | | 150  [63-240] |
| Big-bowel | 38  [19-60] | \* | | 36  [22-94] | | \* |
| Brain | 33  [16-38] | \* | | 27  [20-38] | | \* |
| Spleen | 25  [22-46] | 31  [22-62] | | 25  [13-48] | | 31  [28-52] |
| Lung | 10  [16-20] | 20  [10-46] | | 17  [10-22] | | 22  [8-29] |
| Plasma† | 1.1  [0.9-1.3] | 18  [14-22] | | 1.3  [1.1-1.4] | | 19  [16-24] |
| Rats aged 14 weeks at sacrifice - Treatment by intra-peritoneal osmotic pumps | | | | | | |
|  | **Controls** | | | **Metformin** | | |
| Organs | **B12 per**  **gram wet tissue** | | **B12**  **per organ** | **B12 per**  **gram wet tissue** | **B12**  **per organ** | |
| Kidney | 880  [730-1070] | 1060  [870-2150] | | 770  [580-1150] | | 1380  [1070-1750] |
| Liver | 55  [41-73] | 640  [420-730] | | 56  [42-65] | | 690  [490-780] |
| Plasma† | 1  [0.8-1.1] | 15  [13-17] | | 0,9  [0.8-1.1] | | 14  [11-17] |

**Supplemental Table 1:** B12 in organs from 16 and 14 weeks old male Wistar control rats (treated with saline subcutaneous or intra-peritoneal) and fed a diet containing 24 ug B12/kg chow (n=10). All results are presented as median and [range]. Range indicates the lowest and the highest value observed. \*Total content was not calculated due to only partial removal of the organ. **†**Plasma B12 is given as pmol/ml plasma and pmol in total circulating plasma.