http://www.ahc.umn.edu/rar/Images/DVM.jpg**Research Animal Resources, University of Minnesota**

**NORMAL CLINICAL CHEMISTRY VALUES**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Dog** | **Cat** | **Rhesus** | **Baboon** | **Swine** | **Sheep** | **Cow** | **Rabbit** | **G Pig** | **Hamster** | **Rat** | **Mouse** | **Gerbil** |
| **Alb(g/dl)** | 2.6-4.0 | 2.6-4.3 | 2.8-5.2 | 2.1-4.9 | 1.8-3.4 | 2.4-3 | 2.8-3.8 | 2.7-4.6 | 2.1-3.9 | 2.3-4.3 | 3.8-4.8 | 2.5-3 | 1.8-5.5 |
| **Alk P (U/l)** | 3-70 | 3-70 | 9.7-89 | 0-551 | 9-20 | 68-387 | 10-77 | 5-20 |  | 15-160 | 16-50 | 35-96 |  |
| **ALT (U/l)** | 4-90 | 4-90 | 0-68 | 23-67 | 9-17 | 10-12 | 4-11 | 12-67 |  | 25-70 | 35-80 | 17-77 |  |
| **Amyl(U/l)** | 220-1070 | 400-1590 |  | 88-398 |  |  |  |  |  | 160-210 |  |  |  |
| **AST (U/l)** | less than 105 | less than 51 | 16-97 | 19-59 | 17-45 | 20-25 | 39-79 | 14-113 |  | 28-140 |  | 54-298 |  |
| **Bili-T(mg/dl)** | 0.2-0.8 | 0.2-0.8 | 0.1-2 | 0-0.4 | 0-0.7 | 0.1-0.3 | 0.1-0.4 | 0.2-0.7 | 0.3-0.9 | 0.2-0.8 | 0.2-0.5 | 0-0.9 | 0.2-0.6 |
| **Bili-dir** | 0-0.4 | 0-0.2 | 0-0.9 | 0-0.2 | 0-0.3 | 0-0.3 | 0-0.4 |  |  |  |  |  |  |
| **BUN (mg/dl)** | 7-24 | 10-30 | 8-30 | 9-19 | 8-24 | 8-20 | 6-22 | 10-25 | 9-31.5 | 12-25 | 10-21 | 8-33 | 17-27 |
| **Ca 2+(mg/dl)** | 9-11.4 | 7.8-11.7 | 6.9-13 | 7.8-10.2 | 10.2-11.9 | 11.5-12 | 9.3-10.6 | 5.6-12.5 | 5.3-12 | 9.5-12 | 8-13 | 7.1-10.1 | 3.7-6.2 |
| **Cholesterol** | 110-330 | 50-150 | 100-200 |  | 36-54 | 52-76 | 80-120 | 20-80 | 20-43 | 50-120 | 40-130 |  | 90-150 |
| **Creat (mg/dl)** | 0.7-1.4 | 0.8-2.0 | 0.1-2.8 | 0.5-1.5 | 1-3 | 1-2.7 | 0.8-1.4 | 0.8-1.8 | 0.6-2.2 | 0.3-1 | 0.5-1 | 0.2-0.9 | 0.6-1.4 |
| **GGT (U/l)** |  |  |  | 17-61 |  | 25-59 | 14-40 |  |  |  |  |  |  |
| **Glucose (g/dl)** | 80-120 | 65-110 | 60-160 | 58-108 | 65-95 | 42-76 | 54-79 | 75-150 | 60-125 | 60-150 | 50-160 | 62-175 | 50-135 |
| **Phos (mg/dl)** | 2.5-7.7 | 2.5-7.7 | 3.1-7.1 | 1.2-4.6 | 7.0-10.9 | 5-7.3 | 5.1-9.3 | 4-6.2 | 3-7.6 | 3.4-8.2 | 5.3-8.3 | 5.7-9.2 | 3.7-7 |
| **TP (g/dl)** | 5.4-8 | 5.4-8 | 4-8 | 6.2-8.0 | 7.4-8.9 | 6-7.9 | 6.3-8.9 | 5.3-7.5 | 4.6-6.2 | 4.5-7.5 | 5.6-7.6 | 3.5-7.2 | 4.3-12.5 |
| **Na+(mEq/l)** | 140-165 | 140-165 | 140-160 | 144-154 | 135-150 | 139-152 | 138-148 | 130-150 | 146-152 | 128-150 | 140-150 | 140-160 |  |
| **K+(mEq/l)** | 4.4-6.1 | 3.5-5.4 | 2.3-6.7 | 2.8-5.0 | 4.4-6.7 | 3.9-5.4 | 3.8-5.1 | 3.6-7.5 | 6.8-8.9 | 3.9-5.8 | 4.3-5.6 | 5-7.5 |  |
| **Chloride** | 109-122 | 117-129 | 84-126 | 91-107 | 94-106 | 95-103 | 96-109 | 95-120 | 98-115 | 95-110 | 95-115 | 88-110 |  |

Some notes on blood values: These values are subjectively averaged from a variety of sources. There is a great range of values reported. This may be accounted for by variation in age, sex, breed or strain, sampling technique and testing methodology. As such, the range limits are not firm boundaries and should be used as guidelines.

Source: http://www.ahc.umn.edu/rar/refvalues.html

Conversions: http://www.endmemo.com/medical/unitconvert