Table 4. Cadmium Cd) concentration levels in bats (mg kg-1 in solid samples and ml l-1 in liquid samples) noted in previous studies. n- number of samples included into the study, n – number of samples

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Location | Species | n | Matrix | Cd concentration levels | References |
| Australia | Black Flying Foxes | 4 | kidney | Nm – 8.09 ppm | [42] |
| 4 | liver | <0.03 – 1.36 |
| 4 | brain | Nm-<0.03 |
| Bent-wing bat | 20 | liver | 0.45 | [43] |
| Free-living Grey-headed flying-fox | 11 | kidney | 0.27-219 | [44] |
| 11 | liver | 0.02-12.6 |
| 11 | fur | <0.01-0.04 |
| 5 | urine | 8.93-169 |
| Captive Grey-headed flying-fox | 14 | kidney | 0.59-62.8 |
| 14 | liver | 0.01-1.06 |
| 14 | fur | 0.00-0.02 |
| 7 | urine | 6.92-34.6 |
| Black flying-fox | 9 | kidney | 4.08–64.1 |
| 9 | liver | 0.23–7.58 |
| 9 | fur | 0.01–0.03 |
| Brazil | Velvety free-tailed bat | 25 | liver | 4.07±2.2- 4.87±2.7 | [45] |
| Brazilian free-tailed bat | 40 | liver | <3.0-<4.05 |
| *Eptesicus diminutus* | 32 | liver | 3.67±2.2 |
| Christmas Isl. | Christmas Island flying-fox | 54 | fur | 0.02–0.32 | [30] |
| Czech republic | Mouse-eared bat | 33 | liver | solitary findings of 0.01 | [46] |
| 33 | kidney | Mean: 0.01 |
| Common pipistrelle | 23 | liver | solitary findings of 0.01 |
| Egypt | Egyptian tomb bat | 91 | Liver | 0.15-0.22 | [36] |
| Egyptian mouse-tailed bat | 72 | liver | 0.07-0.34 |
| Non specified | ? | guano | 0.17-0.21 |
| Germany | Common pipistrelle | 8 | fur | <0.01–245 | [47] |
| Daubenton's bat | 13 | fur | <0.01–0.96 |
| Common noctule | 11 | fur | <0.01–0.74 |
| Daubenton's bat | 21 | fur | 0.11-0.27 | [48] |
| Common pipistrelle | 111 | guano | 1.6-3.2 | [49] |
| 22 | kidney | 0.0045-14 |
| 22 | liver | 0.049-6.5 |
| Various species | 47 | guano | 0.80-41 |
| Great Britain | Brown long-eared | 59 | kidney | <0.081 -12.5 (0.83 med) | [50] |
|  | Natterer’s bat | 13 | kidney | Median 6.27(max 18.5 |
|  | Common pipistrelle | 172 | kidney | <0.081-29.1 (1.42 med |
|  | Whiskered bat | 17 | kidney | <0.081-16 (med 1.61) |
|  | Common pipistrelle | 191 | liver | 0.0015–2.5 | [51] |
| Italy | Greater mouse-eared bat | 101 | fur | <0.001-0.075 | [52] |
| 101 | liver | <0.001-1.495 |
| Mexico | Mexican free-tailed bat | 48 | liver | <0.20-1.98 | [53] |
| Mexican free-tailed bat | 70 | liver | 0.08–1.631 | [54] |
| Fish-eating bat | 10 | liver | 4.1-7.9 | [55[ |
| Greater bulldog bat | 10 | liver | 1.5-14.4 |
| Portugal | Various species: Savi's pipistrelle, Lesser noctule, Common pipistrelle,Soprano pipistrelle | 56 | bone | 0.00-0.06 | [31] |
| brain | 0.01-0.10 |
| heart | 0.03-1.04 |
| liver | 0.17-1.77 |
| fur | 0.02-057 |
| wing | 0.02-0.24 |
| South Africa | Banana bat | 26 | liver | <2.867 | [56] |
| Egyptian free-tailed bat and Angolan free-tailed bat | 11 | fur | 0.016-0.171 | [32] |
| 11 | blood | 0.0001-0.004 |
| Taiwan | Non specified | 6 | body | 0.05-1.37 | [57] |
| Ukraine | Kuhl's pipistrelle | 54 | Fur | 0.004-1.462 | [28] |
| Wing | 0.001-0.612 |
| Lung | 0.001-1.121 |
| Liver | 0.002-4.291 |
| kidney | 0.001-13.138 |
| Bone | 0.001-0.092 |
| Muscle | 0.001-1.892 |
| Serotine bat | 20 | fur | 0.12 -3.12 | [25] |
| 18 | wing | 0.01 -2.93 |
| 20 | lung | 0.01 -0.12 |
| 19 | liver | 0.01- 0.69 |
| 19 | kidney | 0.03 -1.92 |
| 20 | bone | 0.001- 0.33 |
| Common noctule | 19 | fur | 0.059 -0.82 |
| 10 | wing | 0.02 -0.35 |
| 20 | lung | 0.003 -0.1 |
| 17 | liver | 0.065 -0.763 |
| 18 | kidney | 0.11 -1.42 |
| 20 | bone | 0.001- 0.05 |
| USA | Grey bat | 4 | guano | 0.59-0.65 | [58] |