

Audiogram of the big brown bat (*Eptesicus fuscus*)

Data from: Koay, G., Heffner, H.E., and Heffner, R.S. (1997). Audiogram of the big brown bat (*Eptesicus fuscus*). *Hearing Research*, 105, 202-210.

Absolute thresholds (in dB re 20 $\mu\text{N/m}^2$) for three big brown bats (designated A through C)

Frequency (in kHz)	Individual Thresholds (in dB)			Average
	A	B	C	
.5	>110	>110	>110	No response
.85	105.5	108	105.5	106.3
1	101.5	98	95	98.2
2	78.5	76	79	77.8
4	59	55	58.5	57.5
8	26	27.5	28.5	27.3
16	17.5	19	24.5	20.3
20	6.5	6.5	14	9
32	7.5	11.5	14.5	11.2
45	32	31.5	34	32.5
60	—	14.5	19	16.8
64	15	14.5	17	15.5
90	37	31.5	39	35.8
100	54.5	—	—	54.5
110	69.5	—	—	69.5
120	81	82	86.5	83.2

Lowest and highest frequencies audible at sound pressure levels (SPL) ranging from 30 to 70 dB SPL

SPL (in dB)	Lowest audible frequency (in kHz)	Highest audible frequency (in kHz)
70	2.6	110
60	3.7	104
50	4.8	98
40	6.0	92
30	7.5	81

Additional Parameters:

Body weight = 17 g

Functional interaural distance = 50 μs

(Time required for sound to travel around the head from one auditory meatus to the other.)

Comments: Threshold values taken from original data. For an additional audiogram, see Dalland, J.I. (1965) Hearing sensitivity in bats. *Science*, 150, 1185-1186.)