

## Audiogram of the house mouse (*Mus musculus*)

**Data from:** Heffner, H., and Masterton, R. (1980) Hearing in glires: domestic rabbit, cotton rat, feral house mouse and kangaroo rat. *Journal of the Acoustic Society of America*, 68, 154-1599.

### Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$ ) for three wild-trapped house mice (designated A, B, and C)

Frequency (in kHz)	Individual Thresholds (in dB)			Average
	A	B	C	
2	66	69	>69	~70
3.3	—	—	57	57
4	19	18	—	18.5
8	6	8	6	7
16	-11	-11	-7	-10
32	12	3	8	8
64	25	15	36	25
91	58	58	—	58
128	>74	>74	>74	>74

### 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	—
60	2.3	92
50	2.6	83
40	3	74
30	3.4	66

#### Additional Parameters:

**Body weight** = 14 g

**Functional interaural distance** = 40  $\mu\text{s}$

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

**Comments:** Threshold values taken from original data. We now refer to these animals as “wild mice” as “feral” refers to domestic animals that have returned to the wild

For an audiogram using domestic house mice, see Koay, G., Heffner, R.S., and Heffner, H.E. (2002). Behavioral audiograms of homozygous *med<sup>1</sup>* mutant mice with sodium channel deficiency and unaffected controls. *Hearing Research*, 171, 111-118.