

Audiogram of the rhesus macaque (*Macaca mulatta*)

Data from:

- A:** Pfingst, B.E., Hienz, R., and Miller, J. (1975) Reaction-time procedure for measurement of hearing. II. Threshold functions. *Journal of the Acoustical Society of America*, 57, 431-436. (2 animals, headphones)
- B:** Pfingst, B.E., Laycock, J., Flammino, F., Lonsbury-Martin, B., and Martin, G. (1978) Pure tone thresholds for the rhesus monkey. *Hearing Research*, 1, 43-47. (13 animals, headphones)
- C:** Lonsbury-Martin, B., and Martin, G. (1981) Effects of moderately intense sound on auditory sensitivity in rhesus monkeys: Behavioral and neural observations. *Journal of Neurophysiology*, 46, 563-586. (6 animals, headphones)
- D:** Bennett, C.L., Davis, R.T., and Miller, J.M. (1983) Demonstration of presbycusis across repeated measures in a nonhuman primate species. *Behavioral Neuroscience*, 97, 602-607. (2 young animals, loudspeakers)

Absolute thresholds (in dB re 20 $\mu\text{N/m}^2$) for rhesus macaques (studies A through D); average represents unweighted mean of five studies)

Frequency (in kHz)	Average Thresholds (in dB)				Average
	A	B	C	D	
.125	38	38.9	—	33	37
.250	23	24.6	—		24
.500	17.5	—	22	12.5	17
1	7	8.9	12.5		10
2	8	6.5	9.5	5	7
4	12	16.3	18	0	12
8	1	5.7	5	—	4
16	7	7	8	8	8
22.6	—	—	—	15	15
32	24	30	31	38	31
40	—	53.1	—	—	53
45	73.5	79.2	—	—	76

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	—	44
60	—	42
50	—	39
40	.110	35
30	.185	32

Additional Parameters:

Body weight = 12 kg

Functional interaural distance = 424 μ s

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

Comments: Threshold values taken from graphs. Tones presented via headphones except for D.