

Audiogram of the Japanese macaque (*Macaca fuscata*)

Data from: Jackson, L.S., Heffner, R.S., and Heffner, H.E. (1999) Free-field audiogram of the Japanese macaque (*Macaca fuscata*). *Journal of the Acoustical Society of America*, 106, 3017-3023.

Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$) for five Japanese macaques (designated A through E)

Frequency (in kHz)	Individual Thresholds (in dB)					Average
	A	B	C	D	E	
.0125	77	76	81			78
.016	71	72	71			71.3
.025	66	60	63			63
.032	57	57	56			56.6
.063	34.5	36.5	37			36
.125	19	18.5	18			18.5
.250	15	17	13			15
.500	2	10	7			5.3
1	5	3	4			4
2	0	9	7			5.3
4	-2	1	4			1
8	0	5.5	8			4.5
16	1	0.5	8.5			3.3
32	37	38	43	39		39.3
36	64	72	77	54	76	71
40	85	89	92			88.6

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	.0175	38.5
60	.0275	34.5
50	.040	33.3
40	.055	32.2
30	.080	26.0

Additional Parameters:

Body weight = 12 kg

Functional interaural distance = 465 μs

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

Comments: Threshold values taken from original data.

Additional audiograms based on tests with headphones available in :

A: Owren, M.J., Hopp, S.L., Sinnott, J.M., and Petersen, M.R. (1988) Absolute auditory thresholds in three old world monkey species (*Cercopithecus aethiops*, *C. neglectus*, *Macaca fuscata*) and humans (*Homo sapiens*). *Journal of Comparative Psychology*, 102, 99-107.

B: Smith, D.W. and Olszyk, V.B. (1997) Auditory behavioral thresholds for Japanese macaques using insert earphones. *American Journal of Primatology*, 41, 323-239.