

Audiogram of the long-eared hedgehog (*Hemiechinus auritus*)

Data from: Ravizza, R.J., Heffner, H.E., and Masterton, B.(1969) Hearing in primitive mammals: II, Hedgehog (*Hemiechinus auritus*). *Journal of Auditory Research*, 9, 8-11.

Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$) for two hedgehogs (designated A and B)

Frequency (in kHz)	Individual Thresholds (in dB)		Average
	A	B	
.25	68	70	69
.5	63	63	63
1	46	49	48
2	31	31	31
4	19	8	14
8	9	-3	3
16	11	5	8
32	19	14	16
45	46	29	38

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	.25	—
60	.52	—
50	.88	56*
40	1.35	52
30	2.1	40

*Extrapolated value

Additional Parameters:

Body weight = 500 g

Functional interaural distance= 167 μs

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

Comments: Threshold values taken from original data.

An audiogram of the African hedgehog (*Atelerix sp.*) indicates that hedgehogs may not be as sensitive to low frequencies as indicated here (Koay, unpublished).