

Audiogram of the blind mole rat (*Spalax ehrenbergi*)

Data from: Heffner, R.S., and Heffner, H.E. (1992). Hearing and sound localization in blind mole rats, *Spalax ehrenbergi*. *Hearing Research*, 62, 206-216.

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

Frequency (in kHz)	Individual Thresholds (in dB)		Average
	A	B	
.008	94	92	93
.016	76	81	78.5
.0315	73	75	74
.063	54	57	55.5
.125	52	50	51
.250	41	43	42
.500	40	41	40.4
.800	31	32	31.5
1.6	44	45	44.5
4	57	46	51.5
8	74	60	67
11.2	87	87	87

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	.037	8.2
60	.052	5.9
50	.135	3.4
40	.520	1.6
30	~.800	~.800

Additional Parameters:

Body weight = 140 g

Functional interaural distance= 87 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 another audiogram, see Bronchti, G., Heil, P., Scheich, H., and Wollberg, Z. (1989) Auditory pathway and auditory activation of primary visual targets in the blind mole rat (*Spalax ehrenbergi*): I.2-deoxyglucose study of subcortical centers. *Journal of Comparative Neurology*, 284, 253-274.