

# Audiogram of the Norway rat (*Rattus norvegicus*)

Data from: Heffner, H.E., Heffner, R.S., Contos, C., and Ott, T. (1994) Audiogram of the hooded Norway rat. *Hearing Research*, 73, 244-248.

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

Frequency (in kHz)	Individual Thresholds (in dB)				Average
	A	B	C	D	
.250	—	—	83	85	84
.500	56	53	72	73	64
1	27	21	21	25	23.5
2	24	18	22.5	23.5	22
2.4	24	22	—	—	23
3.2	19	21	—	—	20
4	13	13	—	—	13
8	-5	4	—	—	-0.5
16	11	11	—	—	11
22.4	5	4	—	—	4.5
32	1.5	-4	—	—	-1.25
38	-1	1	—	—	0
45	18		—	—	18
64	28	32	—	—	30
70	65	74	—	—	69

## 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	.290	70
60	.530	68
50	.630	67
40	.750	65
30	.890	64

### Additional Parameters:

**Body weight** = 350 g

**Functional interaural distance** = 150  $\mu\text{s}$

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

**Comments:** Threshold values taken from original data.

For another audiogram, see Kelly, J.B. and Masterton, R.B. (1977) Auditory sensitivity of the albino rat. *Journal of Comparative and Physiological Psychology*, 91, 930-936.