

Supplemental Material S1. Auditory thresholds and speech perception scores obtained from 15 cochlear implant (CI) participants.

| N | Right ear unaided PTA (dB HL) | Left ear unaided PTA (dB HL) | AzBio sentence perception scores (%) | | |
|----|-------------------------------|------------------------------|--------------------------------------|-----------|----------|
| | | | Quiet | 10 dB SNR | 5 dB SNR |
| 1 | 100.00 | 100.00 | 92.41 | 72.66 | 22.46 |
| 2 | 100.00 | 87.50 | 86.2 | 45.65 | 15.1 |
| 3 | 93.75 | 100.00 | 41.61 | 14.07 | 4.13 |
| 4 | 100.00 | 100.00 | 93.28 | 69.62 | 19.42 |
| 5 | 100.00 | 92.50 | 93.47 | 64.02 | 20.28 |
| 6 | 100.00 | 98.75 | 63.70 | 12.75 | 0.03 |
| 7 | 87.50 | 98.75 | 74.82 | 17.39 | 8.05 |
| 8 | 100.00 | 88.75 | 81.11 | 29.65 | 10.07 |
| 9 | 83.75 | 100.00 | 77.85 | 47.70 | 16.55 |
| 10 | 86.25 | 100.00 | 5.30 | 0 | 0 |
| 11 | 100.00 | 100.00 | 94.24 | 51.44 | 27.51 |
| 12 | 90.00 | 100.00 | 67.39 | 31.72 | 7.97 |
| 13 | 100.00 | 97.50 | 87.76 | 63.04 | 26.66 |
| 14 | 100.00 | 100.00 | 96.29 | 65.10 | 31.15 |
| 15 | 91.25 | 100.00 | 94.92 | 69.06 | 26.17 |

Note. Pure-tone average (PTA) was calculated by averaging thresholds at 500, 1k, 2k, and 4k Hz 100 dB HL was used when the threshold is greater than 100 dB HL. SNR = signal-to-noise ratio.