

Table 1. Recognition results of pitch and vowel quality tested for opposing sounds of a D-pattern without and with full attenuation of H1 (vowel recognition = 2 subtests with 10 identifications, pitch recognition = 1 test with 5 identifications; see Method section). Columns 1–3 = sound production (S=series number, fo=fundamental frequency in Hz, V=vowel quality intended). Columns 4–8 = harmonic configuration of synthesis (H1=fundamental, AH1=attenuation of H1, D(i)=dominant harmonics, approximate values in Hz). Columns 9–14 = recognised vowel qualities (total of both tests). Columns 15–16 = recognised pitch level for the comparison of sounds related to a D-pattern without and with full attenuation of H1. – Recognition rates ≥ 80% of mid-closed vowels and/or of low pitch is highlighted in blue, and recognition rates ≥ 80% of closed vowels and/or of high pitch is highlighted in red.

Natural sound			Harmonic synthesis					Vowel recognition						Pitch recognition	
S	f _o	V	H1	AH1	D1	D2	D3	o	ø	e	u	y	i	low	high
1	220	e	220	0	440	2640	3080			10				5	
			–	-100									10		5
2	250	e	250	0	500	2500	3000		1	9				5	
			–	-100						1			9		5
3	220	ø	220	0	440	1760	2640		10					5	
			–	-100								10			5
4	220	ø	220	0	440	1760	2640		10					5	
			–	-100					1			9			5
5	220	o	220	0	440	880	–	10						5	
			–	-100								10			5
6	220	o	220	0	440	880	–	8				2		5	
			–	-100								10			5