

Supplemental Table 1. Isotope values and collagen quality indicators for tooth enamel, dentin and bone samples new to this study. Sites are listed in chronological order, as per Table 2 in the text. All teeth are lower first molars, unless otherwise indicated. Values for dentin from UCT numbers followed by brackets [3] include values that were created from the means of three horizontally oriented samples of tissue from mid-root to the apex.

Site Name & Borden #	Identifier /Tooth, if not M ₁	UCT No.	$\delta^{13}\text{C}$			$\delta^{15}\text{N}$		wt %C		wt % N		C/N	C/N	
			Tooth/ Bone	Enamel	Dentine	Bone	Dentine	Bone	Dentine	Bone	Dentine	Bone	Dentine	Bone
Fairy AIgt-3	cranmand0022 (43)	14138	-2.9	-9.8			12.7		43.0		15.1		3.3	
Fairy AIgt-3	cranmand0010 (817)	14139	-1.6	-10.2			11.4		43.1		15.6		3.2	
Fairy AIgt-3	cranmand0024 (318)	¹ 14140	-3.5	-10.7			11.4		42.9		15.3		3.3	
Fairy AIgt-3	cranmand0006 (739)	14141	-3.6	-10.8	-10.6		10.8	10.9	43.8	41.4	15.7	14.7	3.2	3.3
Fairy AIgt-3	cranmand0041 (126)	14142	-8.0	-8.6	-10.5		12	11.9	42.7	43.4	15.3	15.4	3.3	3.3
Fairy AIgt-3	cranmand0027 (301)	14143	-2.4	-11.8			12		43.1		15.6		3.2	
Fairy AIgt-3	cranmand0023 (47)	14144	-3.7	-11.2	-11.4		11.6	12.1	42.7	38.2	15.3	13.3	3.3	3.3
Fairy AIgt-3	cranmand0053 (54)	14145	-2.6	-10.6	-14.2		11.6	10.9	43.3		15.7		3.2	
Fairy AIgt-3	cranmand0038 (52)	14146	-2.5	-10	-10.2		11.8	11.9	45.3	42.3	16.5	15.2	3.2	3.3
Fairy AIgt-3	cranmand0014 (738)	14147	-3.8	-13.4			11.9		39.5		12.6		3.7	
Fairy AIgt-3	cranmand0149 (479)	16045 [3]	-7.3	-10.7			11.6		43.6		14.7		3.5	
				-11.4			11.4		44.2		14.9		3.5	
				-11.5			11.5		43.7		14.8		3.5	
Fairy AIgt-3	cranmand0157 (25)	16046 [3]	-3.9	-10.7	-10		12.3	11.5	41.8	41.1	14.2	13.8	3.4	3.5
				-11.3			12.4		41.5		14.2		3.4	
				-11.5			12.4		41.7		14.4		3.4	
Fairy AIgt-3	cranmand0156 (153)	16047 [3]	-3.8	-10.3	-10.8		11.3	11.5	41.9	40.7	15.3	13.9	3.2	3.4
				-11.2			11.3		37.7		15.3		3.3	
				-11.1			11.0		42.1		15.2		3.2	
Fairy AIgt-3	cranmand0062 (102)	16048 [3]	-4.0	-12.2			10.3		41.91		14.4		3.4	
				-10.9			10.5		41.35		14.0		3.4	
				-10.7			11.6		41.61		14.3		3.4	
Fairy AIgt-3	cranmand0034 (MUI2)	16049 [3]	-2.9	-9.5			11.5		42.9		15.3		3.3	
				-9.5			11.6		43.2		15.4		3.3	
				-9.7			11.8		43.4		15.4		3.3	
Bosomworth BaGv-1	cranmand0003 (BwC2) /Canine	14188	-5.1	-9.7			12.1		45.4		16.5		3.2	
Bosomworth BaGv-1	cranmand0004 (BwH2) /PM ₁	14189	-3.4	-12.3			12.4		45.0		16.5		3.2	
Bosomworth BaGv-1	cranmand0001 (BwE2) /M ₂	14190	-3	-10.6			12.3		45.3		16.5		3.2	
Uxbridge BbGs-3	cranmand0168 (U3L9S8 162)	¹ 14173	-2.9	-11.3	-13.2		9.9	13.8	45.2	39.9	16.6	13.8	3.2	3.4
Uxbridge BbGs-3	cranmand0164 (U2L9S8 369)	14174	-2.3	-10.6			11.1		45.2		16.3		3.2	

Uxbridge BbGs-3	cranmand0085 (U2L9S6 232)	14175	-1.5	-9.9	-11.9	11.7	14.1	44.9	40.6	16.3	14.1	3.2	3.4
Uxbridge BbGs-3	cranmand0063 (U2L5S4 166)	14176	-4.9	-10.8		11.2		45.2		16.0		3.3	
Uxbridge BbGs-3	cranmand0004 (L19S1 87)	14177	-5.3	-10.3		12.2		43.0		15.3		3.3	
Uxbridge BbGs-3	cranmand 0114 (U2L11S5 260)	14178	-3.4	-11.8		11.5		42.7		15.4		3.2	
Uxbridge BbGs-3	cranmand 0125 (U1L12S3 81)	14179	-4.9	-13.4		12.8		42.1		15.1		3.3	
Uxbridge BbGs-3	cranmand0037 (U3L10S1 389)	14180	-3.6	-11.7		11.5		45.0		15.9		3.3	
Uxbridge BbGs-3	cranmand0027 (U3L11S8 406)	14181	-5.1	-10.9		11.8		45.5		16.2		3.3	
Uxbridge BbGs-3	cranmand0007 (L20S3 95)	14182	-1.4	-11.1	-10.4	11.7	15.1	42.4	42.0	15.2	15.1	3.3	3.3
Uxbridge BbGs-3	cranmand0040 (U3 L10 S7 397)	16050 [3]	-1.9	-9.9	-12	10.3	12.1	42.7	37.0	15.6	12.7	3.2	3.4
				-9.6		10.8		42.2		15.4		3.2	
				-9.0		11.1		43.3		15.7		3.2	
Uxbridge BbGs-3	cranmand0109 (U2 L8 S4)	16052 [3]	-1.9	-11.6		11.6		38.3		12.7		3.5	
				-12.0		10.2		39.5		13.6		3.4	
				-11.6		10.6		39.1		13.6		3.3	
Uxbridge BbGs-3	cranmand0069 (U2 L5 S4 A6)	16054 [3]	-2.1	-10.5	-11.8	10.6	11.9	44.4	42.1	15.8	14.7	3.2	3.3
				-10.4		10.6		64.7		23.2		3.2	
				-11.2		11.0		44.3		15.9		3.3	
Uxbridge BbGs-3	cranmand0129 (U1 F2 S2 ind. 2 A79)	16057 [3]	-2.5	-9.6		11.6		38.7		13.9		3.2	
				-10.0		12.3		43.7		15.8		3.2	
				-10.9		12.4		43.0		15.5		3.3	
Uxbridge BbGs-3	cranmand0106 (U2 L8 S4 211)	16058 [3]	-2.2	-10.1	-10.3	11.4	11.6	42.9	34.4	15.0	11.5	3.3	3.5
				-10.7		11.5		38.6		13.4		3.4	
				-9.3		11.3		43.2		14.8		3.4	
Uxbridge BbGs-3	cranmand0022 (East wall 106)	16059 [3]	-3.2	-9.3	-11.7	10.3	15.8	43.9	29.6	15.8	10.8	3.2	3.2
				-10.1		10.5		40.8		14.8		3.2	
				-11.0		10.7		37.8		13.5		3.3	
Milne BcHb-28	cranmand0003 (mm-22 #6) /M ₂	14153	-4.2	-10.9		11.9		42.3		14.9		3.3	
Milne BcHb-28	cranmand0001 (mm-4) /M ₃	14154	-1.3	-9.9		12.3		42.8		15.3		3.3	
Milne BcHb-28	cranmand0002 (mm-19)	14152	-4.0	-10	-11.2	12.6	15.2	43.0	43.5	15.3	15.2	3.3	3.3

Kleinburg AlGv-1	#2030	14163	-3.3	-11.5	-13	12	12.2	43.1	42.2	15.1	14.6	3.3	3.4
Kleinburg AlGv-1	#190	14164	-2.4	-8.9	-11	11.6	12.3	43.1	42.3	15.4	15.0	3.3	3.3
Kleinburg AlGv-1	18:14 05	14165	-2.9	-10.4	-12.3	12.5	12.7	43.5	43.5	15.5	15.3	3.2	3.3
Kleinburg AlGv-1	#35	14166	-4.1	-9		11.4		42.3		15.3		3.2	
Kleinburg AlGv-1	#213	14167	-4.5	-11.4	-12.5	11.9	11.7	45.5	41.8	16.7	14.8	3.2	3.3
Kleinburg AlGv-1	#2073	14168	-4.3	-10.4	-10.1	11	12.3	45.2	42.7	16.5	15.3	3.2	3.2
Kleinburg AlGv-1	#195	14169	-2.7	-9.8		11.9		45.4		16.6		3.2	
Kleinburg AlGv-1	#31	14170	-3.0	-10.5	-12.2	11.3	11.7	45.6	21.6	16.6	7.8	3.2	3.2
Kleinburg AlGv-1	#2070	14171	-2.5	-10.1		11.8		42.4		15.1		3.3	
Kleinburg AlGv-1	#2130	14172	-3.6	-10.4	-12	12.1	11.9	43.3	31.1	15.6	10.8	3.2	3.3
Kleinburg AlGv-1		16029 [3]	-4.3	-10.2		11.6		40.7		14.8		3.3	
				-10.0		11.5		41.7		14.9		3.3	
				-10.5		11.9		41.8		15.1		3.2	
Kleinburg AlGv-1		16031 [3]	-2.8	-10.2		11.7		37.2		13.6		3.3	
				-9.5		11.3		39.7		14.4		3.2	
				-10.8		11.8		39.7		14.4		3.3	
Kleinburg AlGv-1		16032 [3]	-1.8	-9.2	-11.2	12.4	12.7	42.7	40.3	15.5	14.2	3.2	3.3
				-9.2		12.3		43.5		15.8		3.2	
				-10.5		12.5		43.2		15.5		3.3	
Kleinburg AlGv-1		16033 [3]	-3.8	-10.1		11.9		43.1		15.3		3.3	
				-10.2		11.7		43.5		15.4		3.3	
				-10.5		11.6		43.9		15.5		3.3	
Kleinburg AlGv-1		16036 [3]	-2.8	-10.6	-12.6	11.5	11.7	43.51	32.7	15.6	11.8	3.2	3.2
				-10.6		11.8		44.5		15.7		3.3	
				-10.5		11.9		45.0		15.8		3.3	
Kleinburg AlGv-1		16039 [3]	-2.6	-10.6		11.3		42.4		15.1		3.3	
				-10.1		12.1		42.0		15.2		3.2	
				-9.4		12.1		43.8		15.8		3.2	

Maurice BeHa-1	cranmand0004 (W8 N4 1292)	14183	-0.9	-11.2	-12.2	13.4	14.1	45.1	43.2	16.5	14.4	3.2	3.5
Maurice BeHa-1	cranmand0049 (W10 N4 1121)	14184	-2.6	-10.9	-13.2	13.6	13.3	41.6	42.8	14.5	14.9	3.4	3.4
Maurice BeHa-1	cranmand0046 (W8 N4 2003)	14185	-1.6	-9.3		12.5		42.7		15.4		3.2	
Maurice BeHa-1	cranmand0047 (W8 N4 2004)	14186	-2.8	-10.4		12.2		42.9		15.5		3.2	
Maurice BeHa-1	cranmand0052 (W10 N4 1129)	14187	-3.3	-10.7		14.4		42.8		15.5		3.2	
Maurice BeHa-1	W10_N4_L13	16024	-2.2										
Maurice BeHa-1	cranmand0041 (W10 N4 1133)	16025 [3]	-2.3	-11.7		10.8		48.8		17.1		3.3	
				-11.6		10.9		46.2		15.8		3.4	
				-10.0		11.7		43.5		15.5		3.3	
Maurice BeHa-1	cranmand0054 (W10 N6 712)	16026 [3]	-1.1	-9.6		11.3		52.3		18.6		3.3	
				-9.8		11.7		40.5		14.3		3.3	
				-9.5		12.0		33.1		11.7		3.3	
Warminster BdBv-1	cranmand0006 (90)	14155	-2.8	-10.9		12.2		43.1		14.6		3.4	
Warminster BdBv-1	cranmand0001 (91)	14156	-1	-8.9	-11.5	11.1	12	42.5	43.1	14.4	14.3	3.4	3.5
Warminster BdBv-1	cranmand0021 (114)	14157	-3	-10.5	-12.6	12.7	12.3	43.1	41.9	15.5	14.2	3.2	3.4
Warminster BdBv-1	no provenience	14158 [3]	-1.3	-10.6		11.7						3.3	
				-10.6		11.7		42.5			14.5	3.4	
				-11.2		12.4		42.5			14.1	3.5	
Warminster BdBv-1	no provenience	14159 [3]	-2.5	-11.4		12.2		43.1		14.6		3.3	
				-10.1		12.2		42.5		15.0		3.4	
				-9.6		11.8		42.3		15.1	15.0	3.3	
Warminster BdBv-1	cranmand0013 (115)	16021 [3]	-2.8	-11.6	-11.5	11.8	11.3	42.3	41.3	15.0	14.2	3.3	2.9
				-12.1		11.8		41.9		14.4		3.4	
				-11.5		11.4		42.5		14.4		3.4	
Christian Is BeHb-3	cranmand 0001(TPIF8B3)/M3	14160	-2.3	-9.8		12.2		42.2		15.2		3.3	
Christian Is BeHb-3	cranmand 002(68W1, 70WIB20)/M ₂	14161	-1.8	-8.7		12.4		42.1		15.3		3.2	
Christian Is BeHb-3	maxillary, no provenience/M ₂	14162	-2.1	-8.4	-10.8	12.4	11.4	42.4	45.1	15.4	15.7	3.2	3.4

¹subsequently used for ¹⁴C date.