Table A.1. Main physiological characteristics of the 20 subjects included in the study conducted on non-fortified cereal products^{16,19}

	Poor Dental Status (PFU ≤ 4)	Satisfactory Dental Status (PFU ≥ 7)	Whole group n=20	
	n=10	n=10		
Age (years)	75 ± 4	69 ± 5	72 ± 5	
Sex				
Number of Male	5	4	9	
Number of Female	5	6	11	
Unstimulated Salivary	0.41 ± 0.19	0.33 ± 0.18	0.37 ± 0.18	
Flow Rate (mL/min)	Min 0.18 Max 0.75	Min 0.03 Max 0.67	Min 0.03 Max 0.75	
Stimulated Salivary	1.76 ± 0.89	2.05 ± 0.98	1.91 ± 0.92	
Flow Rate (mL/ min)	Min 0.84 Max 3.70	Min 0.30 Max 3.84	Min 0.30 Max 3.84	

	Sponge-cake	Brioche
Proteins (g/100 g)*	11	7
Fat (g/100 g)*	6	17
Carbohydrates (g/100 g)*	55	46
Sucrose (g/100 g)	27	14
Starch (g/100 g)	18	30
Others (g/100 g)	10	2
Density (g/cm³)	0.21 ± 0.02	0.33 ± 0.02
Water content (g/100 g)	28 ± 2	30 ± 2
Young's modulus E (kPa)	20 (±3)	5 (±1)

Table A.2. Composition (wet basis) and properties of the non fortified cereal products ^{16,19}

*Theoretical values based on individual ingredients composition (USDA database).

Section	Questions	Scale (structured)	
0	Is this food		
General comfort	Comfortable? (Overall)	1 to 5	
	Easy to eat?		
	Is this food		
	Easy to bite with incisors?		
_ .	Easy to chew?		
Bolus formation	Easy to bite with premolars?	1 to 6	
	Easy to moisten?		
	Easy to swallow?		
	Rapid to swallow?		
	Does this food cause you		
	Burning sensation?		
Pain	Muscular pain?		
	Joint pain?		
	Gums pain?		
	Is this food	1 to 4	
Texture	Sticky?		
	Pasty?		
	Stringy?		
	Fatty?		
	Melting?		
	Firm?		

Table A.3 In-mouth comfort assessment sub-sections and questions

	Is this food	
Flavor	Intense?	
	Salty?	
	Sweet?	
	Acid?	
	Bitter?	

Table A.4 ANCOVA model coefficients (Type III sum of squares) for particle size parameters for fortified sponge-cake (FSC) and fortified brioche (FB). F= Fisher ratio; p= p-value; β =normalized regression coefficients, for dental status only the Satisfactory coefficient is given (S). Bold figures indicate significant influence of DS or SSF on chewing parameters and bolus properties

			D ₇₅ /D ₂₅		b Gompertz		c Gompertz	
Product			FSC	FB	FSC	FB	FSC	FB
Dental Status	F		3.64	1.53	0.02	0.24	5.11	3.59
	р		0.06	0.22	0.88	0.63	0.02	0.04
(DS)	β	S	-0.74	-0.49	-0.06	-0.19	-0.18	-0.24
Stimulated Salivary Flow (SSF)	F		0.51	0.89	1.07	0.05	1.51	2.05
	р		0.48	0.35	0.31	0.82	0.22	0.57
	β		0.73	0.31	-0.04	0.16	-0.17	-0.18