Table 1. -- Sugar Alcobols and Pisque pM, Acid Production

Study	Study Design	Subjects	Wethods	Results	Comments
Bibby and Fu. 1985 (Ref. 38)	Study to evaluate in vitro method for	Adult volunteers	Fresh plague was collected from adult volunteers who had suspended oral	Plaque pH in presence of sugar alcohols after 20 min of incubation	The 10% solution of HSM resulted in a final plaque pH that is
	determining plaque pH		hygiene for 24 to 48 hours (hr) and who had not eaten for 2 hr prior to	Sola Conc (w/v)	detrimental to dental enamel. Authors state that the HSH was
			pleque removal. Plaque was connected	Pubritrate 0.15 1.05 105	mainly son.
			to pH meter and strip chart recorder. Methods described in detail in the	4.39	The results showing that plaque pH
			study	5.24	increases with increasing
			SCR), SOR, MANN. (Sone)tulose, 180.	Mannitol 5.67 5.54 5.22	concentration of A, while the prior
			sorbose, X. saccharine (SACC), and	6.30 6.17	decreased, provides support for the
			aspartame (ASP). All but SACC and	6.07 6.13	contention that X is nonpromotional
			ASP were prepared as 0.1, 1.0, and	arch 5.55 4.85	for carles. For SOR, MANN, Hill, and
			10% aqueous solutions. SACC and ASP		150, the trend towards decreasing pil
			were diluted in water to give	Mean pH of plaque after incubation	with increasing concentration.
			sweetness equivalents of 0.1, 1.0 and	for 20 min with solutions up to 10%	suggests that at a slightly higher
			10% S solutions.	of iscessitulese resulted in a low pM	concentration (>10%), the pH might
			Experiment 1: Plaque responses to	similar to that of S. Increasing	dip below the level required for
			SOR, MANN, X were compared to S, F.	concentrations of 150 and MSN	deminaralization of ename! (pH 5.5).
			maltose, raffinose, and corn starch.	resulted in lowered pN of plaque	
			Exp. 2: other sweeteners were used.	compared to the pH in the 0.14	
				BOLLCION OF CHE BWEELENEY. INC.	
				5.6 (180) and 5.0 (NSH).	
				Results of incubation of plaque with both S and X showed that X did not	
				inceriere With 8 termentation.	