**Supplementary Material**

(Sullivan et al. doi:10.1017/S0007114514001196)

Mirocam® capsule endoscopy video clips of the *in vivo* digestion of a 250ml drink containing 25 g/l α-lactalbumin (α-LA) with 50 g/l sucrose. The camera was swallowed simultaneously with the drink. After 97 minutes, a second identical drink was swallowed.

**Video clip 1**

Protein drink in the stomach; Gastric acid secretion from the wall of the stomach induced a colour change in the mixture (white streaks).

Time of video: 5 min corresponding to 5 min after ingestion of protein drink; pH 1.63.

**Video clip 2**

Protein drink in the stomach;

Time of video: 17 min corresponding to 17 min after ingestion of protein drink; pH 3.78.

**Video clip 3**

Peristalsis occurring in the empty stomach;

Time of video 1 h 31 min corresponding to 91min after ingestion of protein drink; pH 1.8.

**Video clip 4**

Second protein drink entering the stomach and immediate precipitation occurring;

Time of video: 1 h 37 min corresponding to time 0 after ingestion; pH 4.75.

**Video clip 5**

Mirocam® capsule in the small intestine;

Time of video: 2 h 35 min corresponding to 58min after ingestion of second protein drink; pH undetermined

**Figure 1S:** pH levels of gastric aspirates as a function of time of digestion; pH curves of outliers (n = 2, A and B) removed from pH curve averages in Figure 1. A) no pH decrease with protein drink and erratic pH recorded; B) no pH increase with one protein drinks. 50 g/l sucrose in water with 25 g/l α-LA (α-LA) (♦), 25 g/l α-LA with oleic acid (α-LA-OA) (⏹), oleic acid alone (OA) (▲);



