

Supplementary table 5: Results from heatmap study of stomach tissue.

Tissue	d _j (um)	p _{in} ' (Bar)	VDE _{set} (%)	n	Notes
Stomach	167	34.20 ± 2.59	1.3 ± 2.4	4	No depot - all fluid in lumen
Stomach	167	41.20 ± 3.14	51.7 ± 92.1	4	Medium depot - excess fluid in lumen
Stomach	167	48.40 ± 3.73	40.4 ± 76.0	4	Small depot - excess fluid in lumen
Stomach	167	55.60 ± 4.36	37.8 ± 73.8	4	Small depot - excess fluid in lumen
Stomach	257	35.50 ± 2.18	2.3 ± 2.0	8	No depot - all fluid in lumen
Stomach	257	42.20 ± 2.64	71.0 ± 44.4	8	Medium depot - excess fluid in lumen
Stomach	257	48.90 ± 3.12	38.3 ± 43.3	6	Small depot - excess fluid likely in peritoneum
Stomach	257	55.40 ± 3.63	55.5 ± 37.2	6	Medium depot - excess fluid likely in peritoneum
Stomach	332	33.00 ± 1.43	20.6 ± 29.9	8	Small depot - excess fluid in lumen
Stomach	332	41.90 ± 1.81	65.0 ± 22.8	6	Medium depot - excess fluid in lumen
Stomach	332	51.10 ± 2.24	7.2 ± 5.3	4	No depot - all fluid in lumen
Stomach	332	60.50 ± 2.74	32.1 ± 39.5	6	Small depot - excess fluid likely in peritoneum
Stomach	446	22.20 ± 1.32	2.5 ± 2.8	6	No depot - all fluid in lumen
Stomach	446	28.90 ± 1.78	61.3 ± 41.2	4	Medium depot - excess fluid in lumen
Stomach	446	35.10 ± 2.32	85.4 ± 143.6	2	Large depot - excess fluid in lumen
Stomach	446	41.00 ± 2.96	Qualitative only	4	Most fluid observed to be in peritoneum
Stomach	551	21.20 ± 0.79	10.1 ± 122.9	2	Small depot - excess fluid in lumen
Stomach	551	28.20 ± 0.99	59.3 ± 335.4	2	Medium depot - excess fluid in lumen
Stomach	551	35.10 ± 1.32	56.9 ± 50.8	4	Medium depot - excess fluid likely in peritoneum