

Supplementary table 3: Results from organ comparison study.

Tissue	d _j (um)	p _{in} ' (Bar)	VDE _{set} (%)	n	Notes
Cheek	257	35.50 ± 2.18	16.9 ± 17.5	4	Small depot - excess fluid in lumen
Cheek	257	42.20 ± 2.64	17.3 ± 25.5	4	Small depot - excess fluid in lumen
Cheek	257	48.90 ± 3.12	27.8 ± 6.7	4	Small depot - excess fluid in lumen
Cheek	257	55.40 ± 3.63	35.2 ± 8.8	4	Small depot - excess fluid in lumen
Colon	257	2.90 ± 0.18	16.2 ± 19.7	4	Small depot - excess fluid in lumen
Colon	257	5.90 ± 0.36	24.5 ± 32.6	4	Small depot - excess fluid in lumen
Colon	257	8.80 ± 0.54	32.3 ± 27.0	4	Small depot - excess fluid likely in peritoneum
Oesophagus	257	28.60 ± 1.74	3.0 ± 37.6	2	No depot - all fluid in lumen
Oesophagus	257	42.20 ± 2.64	18.5 ± 58.9	4	Small depot - excess fluid in lumen
Oesophagus	257	48.90 ± 3.12	38.5 ± 26.1	6	Small depot - excess fluid likely in peritoneum
Oesophagus	257	55.40 ± 3.63	44.1 ± 45.5	4	Small depot - excess fluid likely in peritoneum
Intestine	257	8.80 ± 0.54	41.0 ± 75.1	4	Small depot - excess fluid in lumen
Intestine	257	11.60 ± 0.71	56.1 ± 61.9	4	Medium depot - excess fluid in lumen
Intestine	257	14.50 ± 0.88	87.5 ± 21.3	4	Large depot - excess fluid in lumen
Intestine	257	17.40 ± 1.06	84.3 ± 6.2	4	Large depot - excess fluid in lumen
Intestine	257	20.20 ± 1.23	14.0 ± 36.6	4	Small depot - excess fluid likely in peritoneum
Rectum	257	8.80 ± 0.54	3.1 ± 28.1	2	No depot - all fluid in lumen
Rectum	257	14.50 ± 0.88	95.4 ± 17.6	4	Large depot - excess fluid in lumen
Rectum	257	21.60 ± 1.31	97.4 ± 7.0	4	Large depot - excess fluid in lumen
Rectum	257	28.60 ± 1.74	93.6 ± 13.1	4	Large depot - excess fluid in lumen
Rectum	257	42.20 ± 2.64	54.0 ± 257.0	2	Medium depot - excess fluid likely in peritoneum
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	55.4 ± 3.63	55.5 ± 37.2	6	Medium depot - excess fluid likely in peritoneum