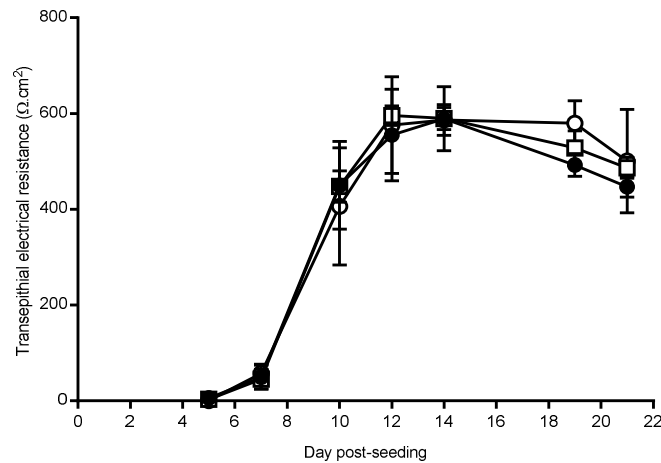


Online resource 1

Differential effects of basolateral and apical iron supply on iron transport in Caco-2 cells
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Effects of different forms of iron, supplied to Caco-2 cell monolayers via either the apical or basolateral surface, on transepithelial electrical resistance (TEER) of the cell layer. Values indicate background corrected TEER values determined for Caco-2 cell monolayers established over two weeks (days 1-13 following seeding) in bicameral chambers before being swapped for one further week (days 14-21 following cell seeding) into medium prepared with metal depleted fetal bovine serum (FBS) only (black circles), medium prepared with metal depleted FBS plus 30 μM holo-Tf added to the medium only on the basolateral side of the cells (open circles) or medium prepared with metal depleted FBS plus 10 μM ferric NTA added to the medium only on the apical side of the cells (open squares). The medium was refreshed every 2 to 3 days. Error bars indicate mean values \pm standard deviation ($n = 8$ comprised of measurements from 2 replicate wells for each treatment from each of 4 separate plates set up in parallel). Data were compared by two way ANOVA. The results of this analysis indicated that there was a significant change in TEER values over time ($p < 0.0001$) but no significant effects of the treatments and no significant interaction between treatment and time.