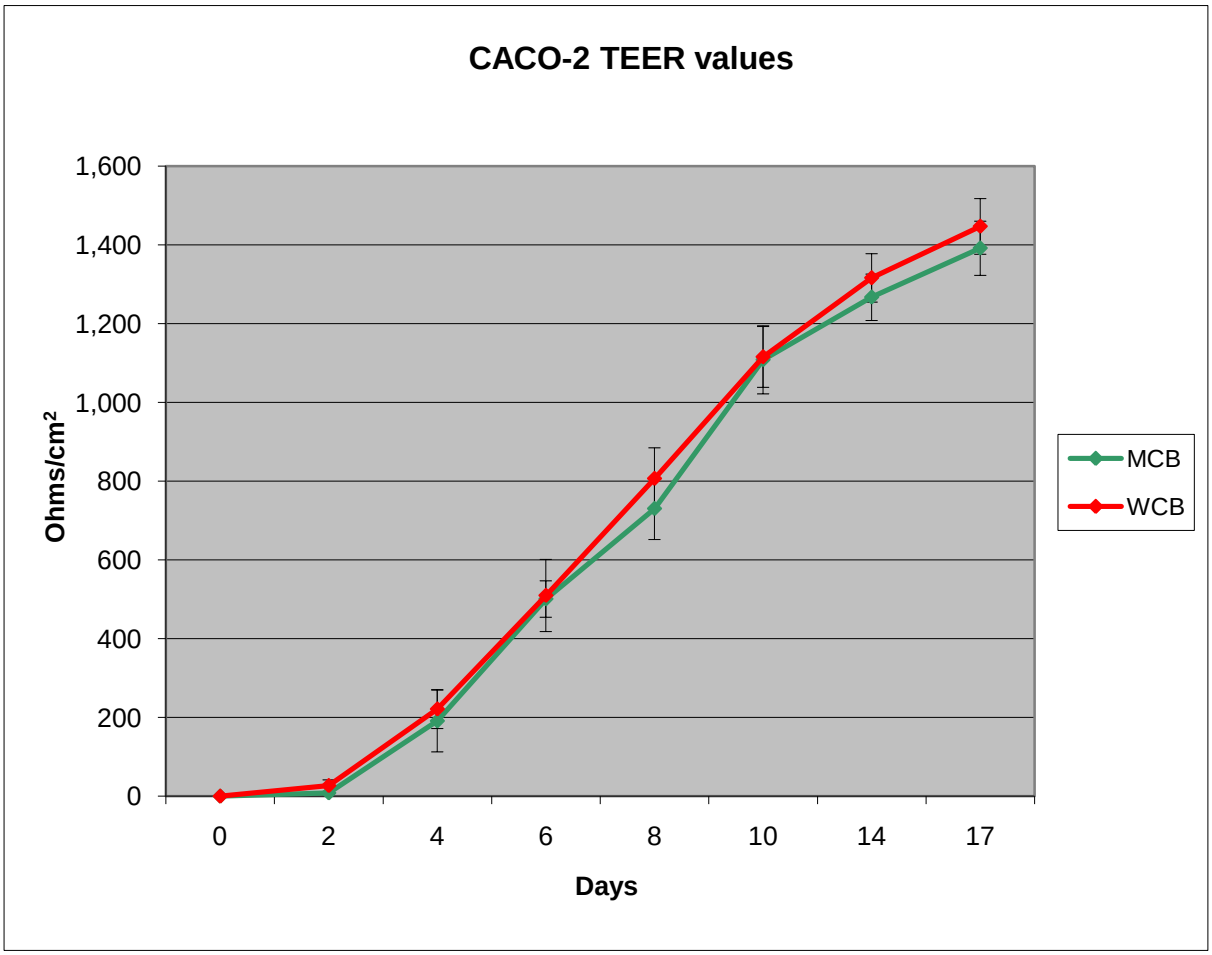
Trans-epithelial electrical resistance (TEER) measurements of CACO-2 cells



Transepithelial electrical resistance (TEER) measurements were made using a Millicell-ERS device (Millipore) and chopstick-style electrodes. Briefly, CACO-2 cells, ECACC catalogue number 09042001; (Master and Working banks, lot numbers are 09D031 & 09E12 respectively) were used between passage numbers 44-48. Cells were seeded on to Millipore Millicell® cell culture inserts (0.4um pore size) in 24 well plates at $1x10^5$cells/cm^2. CACO-2 monolayer formation in transwells was assessed by measuring TEER using a Millicell-ERS device (Millipore) and chopstick-style electrodes. Growth medium was removed and the differentiating monolayers were gently washed twice with Hanks Balanced Salt solution (HBSS) and finally placed in 400µl of HBSS. The growth medium was also removed from the basolateral chamber and replaced with 750 µl of HBSS. Measurements were made at room temperature (25^{o}C). Replicates of four separate determinations.