$r_{goccia} = 10 \mu m = 10 \cdot 10^{-6} m$

$E = 150 \frac{N}{C}$

(A) $m_{goccia} = d \cdot V = 1000 \frac{kg}{m^3} \cdot \frac{4}{3} \pi \left(10 \cdot 10^{-6} m\right)^3 = 4,188 \cdot 10^{-12} kg$

$P_{goccia} = m \cdot g = 4,188 \cdot 10^{-12} kg \cdot 9,8 \frac{m}{s^2} = 4,105 \cdot 10^{-11} N$

EQUILIBRIO $F = Eq = P_{peso}$

$\downarrow$

$q = \frac{P}{E} = \frac{4,105 \cdot 10^{-11} \cancel{N}}{150 \frac{\cancel{N}}{C}} = 2,74 \cdot 10^{-13} C$

(B) n° elettroni $= \frac{q}{e} = \frac{2,74 \cdot 10^{-13} \cancel{C}}{1,60 \cdot 10^{-19} \cancel{C}} = 1,7 \cdot 10^{6}$ elettroni