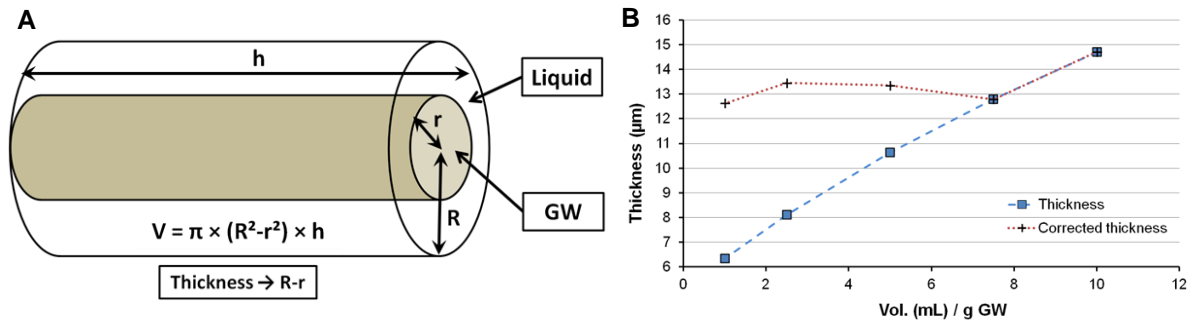


1  
2



**Additional file 3: Determination of the thickness of medium adsorbed on a 1g piece of glass wool.**

Using a hollow cylinder model (A), we calculated the theoretical thickness of a liquid adsorbed on GW without taking into account the % of covered surface (B; blue line) and taking into account the experimentally determined % of covered surface (B; red line). We determined the existence of a minimal theoretical thickness, relatively constant and calculated to be  $\approx 13 \mu\text{m}$  (B).

3  
4  
5