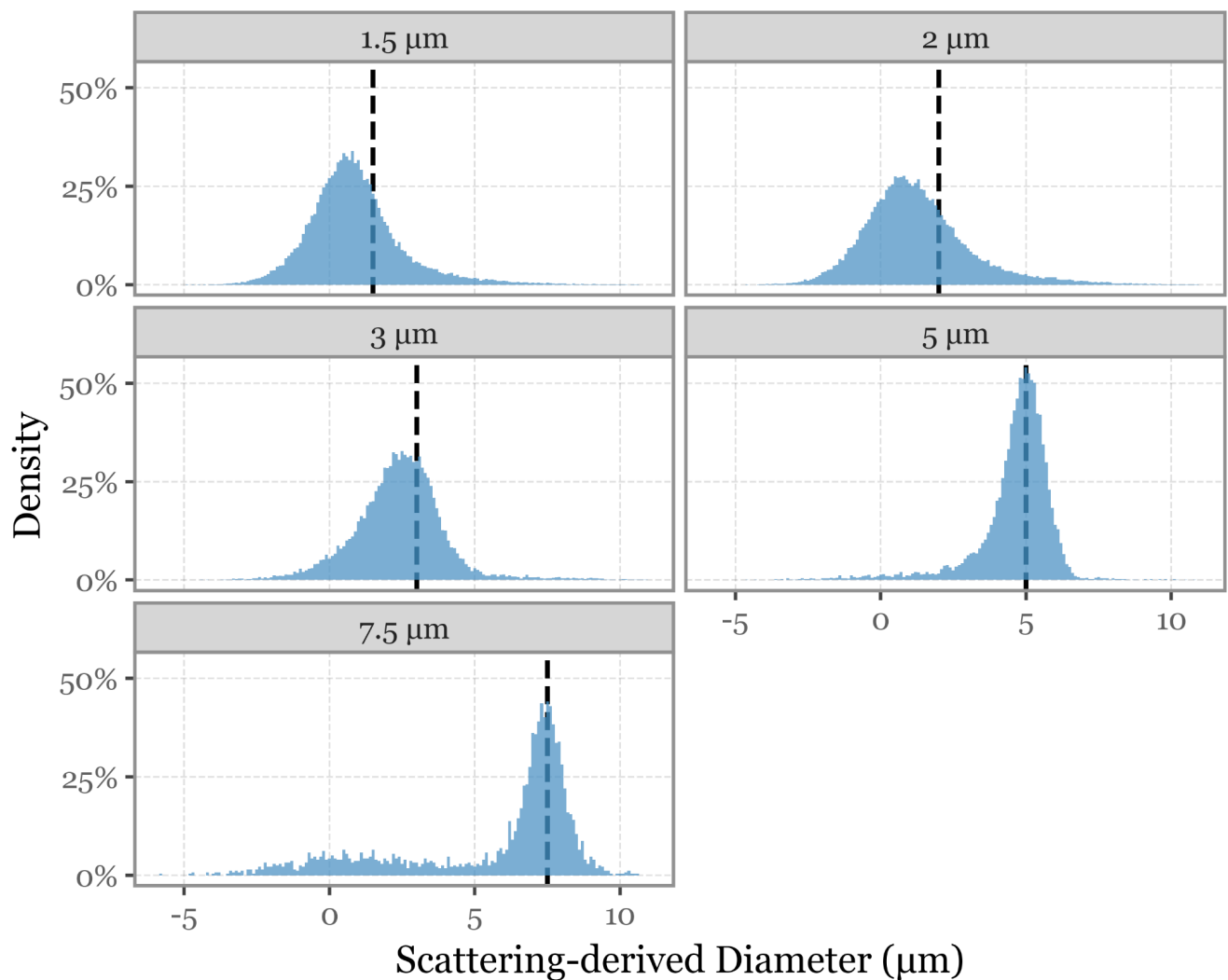




Suppl. Figure 8. Size distributions of monodisperse particles. Scattering-derived diameters reported by the Rapid-E for aerosolized monodisperse polystyrene microspheres with nominal sizes of 1.5, 2, 3, 5 and 7.5 μm, generated under the same flow and aerosolization conditions as the bacterial experiments. The vertical dashed lines indicate the nominal diameters. Distributions are centered close to the expected values, with only limited right tails and no clear secondary modes, suggesting that the instrument's Mie-based size proxy is stable over the bacterial size range and that large multi-particle aggregates were not frequent under these conditions; small negative estimates arise from noise at very low scattering intensities and are not physically meaningful.