**Fig. 1** NIR spectra [log (1/R)] of lactose monohydrate with mass median particle size range 20–110 µm.

**Fig. 2.** Near-infrared spectra of 13 sucrose samples with different particle sizes (smallest particles at the bottom, largest at the top; particle sizes are in the range 20–540 µm. The black spectrum shows a specular reflectance sucrose sample.