



**Figure S3:** Visual predictive checks of the cholecystokin (CCK) plasma concentration time course and stratified by test drink. For each panel, the median (bold lines), 5<sup>th</sup> and 95<sup>th</sup> percentiles (thin lines) of the observed data are compared to the 95% confidence intervals (shaded areas) for the median (light grey), 5<sup>th</sup> and 95<sup>th</sup> percentiles of the simulated data (red/dark grey) (based on 1000 simulations). The external validation of CCK was performed by simulation only. The vertical lines (dashed grey) represent the time of the test drink administration. OGTT: oral glucose tolerance test