Supplementary Figure 2
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Incorporation of Met and Trp into the α-casein fragment by L/F-transferase in vitro. The specificity of L/F-transferase was examined by analyzing amino acid transfer to the α-casein fragment peptide (RYLGYL), using mass spectrometry. The reactions were performed in the absence of aminoacyl-tRNA synthetase (A), and in the presence of leucyl-tRNA synthetase (LeuRS) (B), phenylalanyl-tRNA synthetase (PheRS) (C), methionyl-tRNA synthetase (MetRS) (D), tryptophanyl-tRNA synthetase (TrpRS) (E), and LeuRS, PheRS, MetRS, and TrpRS (F). The observed mass is described on the top of each peak, while the calculated mass of each peptide is described in the box.