



Figure S1. Placental transfer of (A) passive permeability markers (^{14}C -mannitol and ^{14}C -inulin) and (B) facilitated and active transport markers (^{14}C -methyl-D-glucose and ^{14}C -MeAIB, respectively) in *Phlda2*^{-/-}, expressed either as DPM (disintegrations per minute) per gram of labyrinthine zone (Lz) or as DPM per gram of fetus at two gestational ages (E16 and E19). E16: ^{14}C -mannitol, $n = 12$ *Phlda2*^{+/+} and $n = 15$ *Phlda2*^{-/-} from 4 litters; ^{14}C -inulin, $n = 31$ *Phlda2*^{+/+} and $n = 32$ *Phlda2*^{-/-} from 8 litters; ^{14}C -methyl-D-glucose, $n = 20$ *Phlda2*^{+/+} and $n = 17$ *Phlda2*^{-/-} from 6 litters; ^{14}C -MeAIB, $n = 16$ *Phlda2*^{+/+} and $n = 17$ *Phlda2*^{-/-} from 5 litters. E19: ^{14}C -mannitol, $n = 26$ *Phlda2*^{+/+} and $n = 35$ *Phlda2*^{-/-} from 9 litters; ^{14}C -inulin, $n = 22$ *Phlda2*^{+/+} and $n = 18$ *Phlda2*^{-/-} from 5 litters; ^{14}C -methyl-D-glucose, $n = 18$ *Phlda2*^{+/+} and $n = 20$ *Phlda2*^{-/-} from 5 litters; ^{14}C -MeAIB, $n = 48$ *Phlda2*^{+/+} and $n = 42$ *Phlda2*^{-/-} from 13 litters. Bars indicate standard error of the mean (SE). **, $P < 0.01$; ***, $P < 0.001$; N.S. – non-significant.