Figure S1. Extracted ion chromatograms of A) choline, B) betaine, C) acetylcarnitine D) LPC C16:0, E) LPC C18:0.
Figure S2. LC/MSMS spectra of A) LPC C16:0, B) LPC C18:2, C) LPC C18:0, D) LPC C18:1 and E) acetylcarnitine.
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(A)

(B)

(C)
Figure S3. Total ion chromatogram (TIC) from the analysis of derivatized lipid extract from (A–C) male zebrafish liver extract and (D–F) female zebrafish liver extract using GC/MS. The identified peaks are listed in Table 1.
Figure S4. $^1$H NMR (800 MHz) profile of (A-C) female and (D-F) male lipid soluble zebrafish liver extract. The identified peaks are listed in Table 3.
Figure S5. $^1$H NMR (800 MHz) profile of (A-C) female and (D-F) male lipid soluble zebrafish liver extract. The identified peaks are listed in Table 4.