**Solid phase extraction (SPE) partitioning of neutral lipids, glycolipids, and phospholipids**

\*Equilibrate a 3 ml silica column with 3 ml of chloroform: acetic acid (100:1).

\*Add lipid extract in 1 ml of chloroform: acetic acid (100:1) to the column.

\*Let the lipid extract completely enter the column.

\*Wash the tube with 1 ml of chloroform: acetic acid (100:1)

\*Elute neutral lipids with 5 ml chloroform: acetic acid (100:1), 5 ml chloroform: acetone (80:20), and 1 ml chloroform: acetone (50:50)

\*Elute glycolipids containing glucosylceramides with 5 ml acetone, 5 ml acetone: acetic acid (100:1)

\*Elute phospholipids with 5 ml chloroform:methanol:water 100:50:40. Add 1.6 ml of water and 1.6 ml of chloroform to eluted phospholipid extract. Mix well, spin, and recover lower phase.