

**Electronic Supplementary Information Determination of
phosphatidylcholine in soybean lecithin samples by high
performance liquid chromatography on titania**

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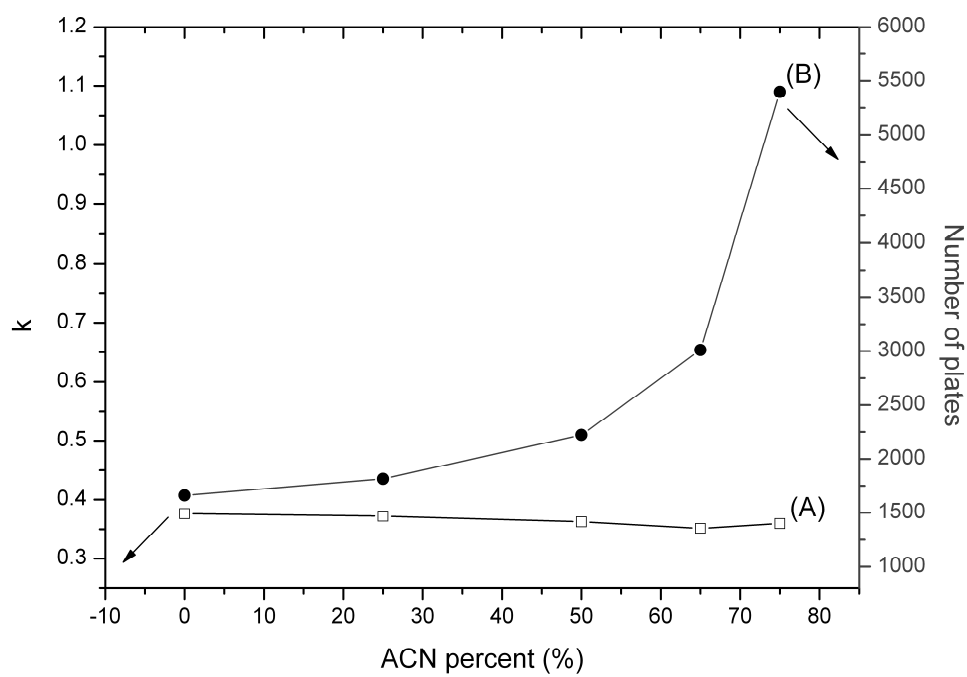


Figure S1. Effect of solvent in sample on retention factor (A) and efficiency (B) of PC on titania. Condition: flow rate, 1.0 mL/min; eluent, MeOH/ACN/water = 10/75/15 (v/v/v), 1 mM phosphate buffer, pH 7.0; analyte, 0.1 mg/mL PC; column temperature, 40°C; injection, 20 μ L; UV detection at 205 nm.

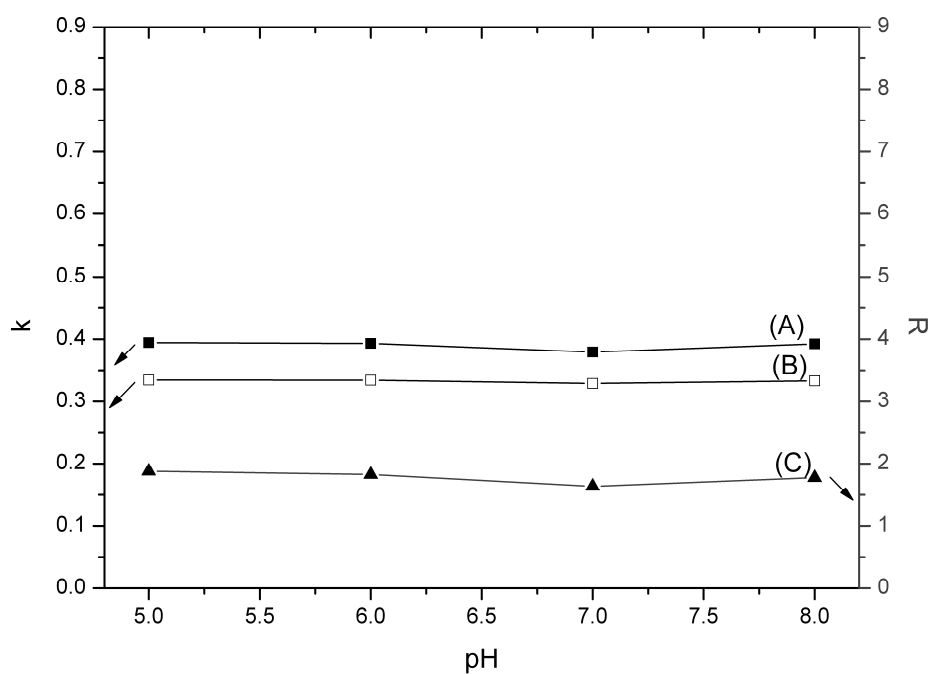


Figure S2. Effect of pH on retention factor (k) and resolution (R) of PC on titania. (A) PC retention factor, (B) glycerol monostearate retention factor, (C) resolution in PC-50 sample; Condition: flow rate, 1.0 mL/min; eluent, MeOH/ACN/water=10/75/15 (v/v/v), 1 mM phosphate buffer, pH 5.0, 6.0, 7.0 and 8.0; analyte, 0.1 mg/mL PC, 4 mg/mL glycerol monostearate and 0.5 mg/mL PC-50 sample; column temperature, 40°C; injection, 20 μ L; UV detection at 205 nm.

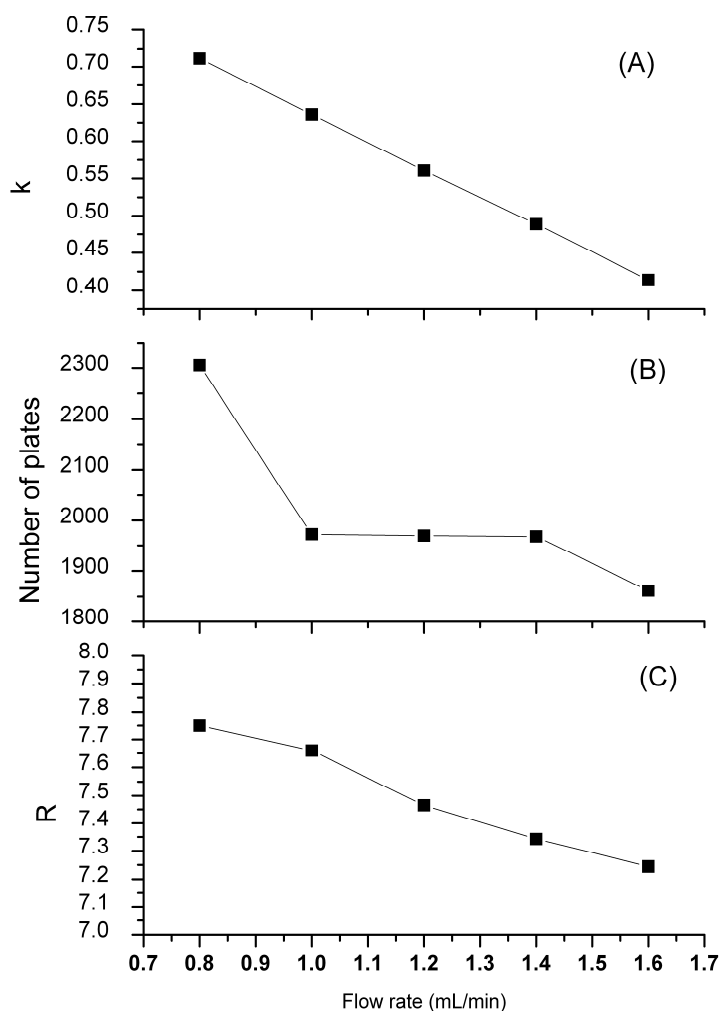


Figure S3. Effect of flow rate on PC retention factor (A), efficiency (B) and resolution (C) of PC on titania. Condition: flow rate, 0.8, 1.0, 1.2, 1.4, 1.6 mL/min; eluent, MeOH/ACN/water = 10/80/10 (v/v/v), no buffer presents; analyte, 0.1 mg/mL PC; column temperature, 40°C; injection, 20 μ L; UV detection at 205 nm.

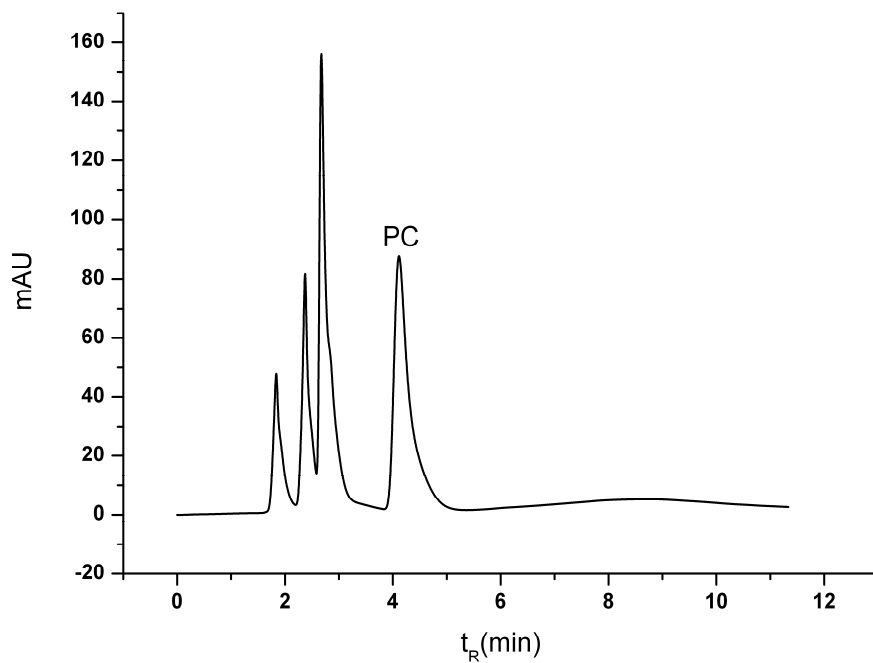


Figure S4. Chromatogram of lecithin capsules of Cal-SUM on titania. Condition: flow rate, 1.0 mL/min; eluent, MeOH/ACN/water = 10/79/11 (v/v/v), no phosphate buffer presents; analyte, 1 mg/mL Cal-SUM capsules; column temperature, 40°C; injection, 20 μ L; UV detection at 205 nm.

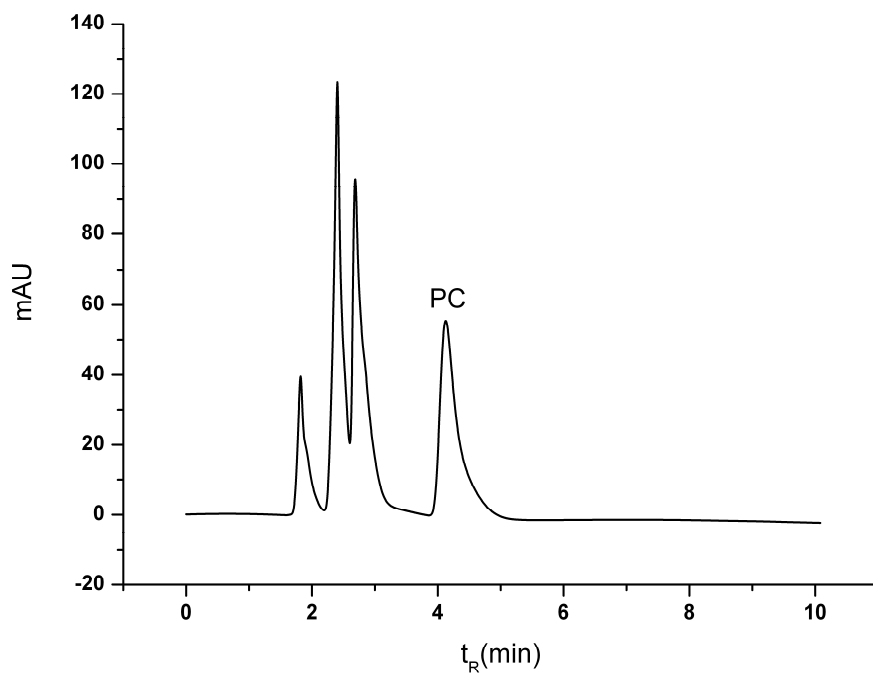


Figure S5. Chromatogram of lecithin capsules of Tomvitm on titania. Condition: flow rate, 1.0mL/min; eluent, methanol/ACN/water = 10/79/11 (v/v/v), no phosphate buffer presents; analyte, 1 mg/mL Tomvitm capsules; column temperature, 40°C; injection, 20 μ L; UV detection at 205 nm.