Supplementary

Table S1. Limit of determination (LOD), limit of quantification (LOQ), and linear range for the nine lipids standards.

Lipids	Ion quantified	a	b	R^2	LOD (μg/ml)	LOQ (μg/ml)	Linear range (μg/ml)
Cer	$[M+H]^+$	4.04e+08	2.79e+06	0.9918	0.0002	0.001	0.001-20
LPC	$[M+H]^+$	4.41e+08	1.25e+06	0.9948	0.0002	0.001	0.001-100
TG	$[M+ NH_4]^+$	1.02e+09	3.76e+06	0.9949	0.0004	0.002	0.002-2
DG	$[M+NH_4]^+$	4.93e+07	-1.73e+06	0.9945	0.008	0.04	0.04-200
PC	$[M+CH3COO]^-$	7.85e+07	8.40e+05	0.9921	0.0002	0.001	0.001-100
PE	$[M-H]^-$	1.47e+08	1.44e+06	0.9901	0.0002	0.001	0.001-100
PG	$[M-H]^-$	1.88e+08	2.97e+05	0.9921	0.0002	0.001	0.001-100
PS	$[M-H]^-$	1.17e+08	4.84e+05	0.9953	0.0002	0.001	0.001-100
FA	$[M-H]^-$	8.67e+07	3.86e+06	0.9945	0.004	0.02	0.02-100

Table S2. Percentage of each class of lipid in BPL from three nectar plants.

Lipid class	Lipid percentage in BPL (%)		
	BP-Cs	BP-Nn	BP-Bc
PC	19.4	15.1	15.5
PE	10.2	4.3	2.2
LPC	5.4	1.7	5.1
DG	22.8	25.5	19.3
TG	18.8	14.7	37.8
FA	22.1	37.3	19.6
PG	0.9	1.1	0.4
PS	0.4	0.2	0.2

Cer	0.04	0.2	0.002

Table S3. Percentage of major species of lipids in each class of lipid.

Lipid class	Lipid species	Lipid percentage in each class of lipid (%)		
		BP-Cs	BP-Nn	BP-Bc
PC	PC(16:0/18:3)	41.3	53.8	42.3
	PC(18:3/18:3)	27.8	15.6	24.6
	PC(16:1/18:2)	6.8	9.6	7.5
	PC(18:3/18:2)	3.8	1.8	7.5
	PC(16:0/18:2)	3.6	3.9	7.2
PE	PE(16:0/18:3)	51.1	67.9	45.7
	PE(18:3/18:3)	21.3	11.4	15.6
	PE(16:0/18:2)	5.9	5.0	11.1
PG	PG(16:0/18:3)	80.2	90.4	74.7
	PG(18:3/18:3)	11.8	4.5	8.9
	PG(16:0/18:2)	2.5	1.8	9.3
LPC	LPC(16:0)	56.5	42.2	59.4
	LPC(18:3)	35.2	50.2	32.4
	LPC(18:1)	2.9	4.0	12.0
	LPC(18:2)	1.1	2.6	4.5
DG	DG(16:0/18:3)	51.5	58.4	53.7
	DG(18:3/18:3)	31.8	13.8	19.6
	DG(16:0/18:2)	2.4	6.7	7.1
	DG(18:1/18:3)	3.7	5.8	4.7