

Supplemental Table S2. Some of the major Meibomian lipid analytes detected in tarsal plates of mice.

Protocol	<i>m/z</i> (exp.)	Lipid class	Molecular formula, detected adduct
MS PIM	563.5761	WE C38:1	C ₃₈ H ₇₄ O ₂ , (M+H) ⁺
	591.6076	WE C40:1	C ₄₀ H ₇₈ O ₂ , (M+H) ⁺
	605.62	WE C41:1	C ₄₁ H ₈₀ O ₂ , (M+H) ⁺
	619.64	WE C42:1	C ₄₂ H ₈₂ O ₂ , (M+H) ⁺
	633.6548	WE C43:1	C ₄₃ H ₈₄ O ₂ , (M+H) ⁺
	647.6685	WE C44:1	C ₄₄ H ₈₆ O ₂ , (M+H) ⁺
	661.6827	WE C45:1	C ₄₅ H ₈₈ O ₂ , (M+H) ⁺
	673.6861	WE C46:2	C ₄₆ H ₈₈ O ₂ , (M+H) ⁺
	675.6994	WE C46:1	C ₄₆ H ₉₀ O ₂ , (M+H) ⁺
	701.7160	WE C48:2	C ₄₈ H ₉₂ O ₂ , (M+H) ⁺
	715.7288	WE C49:2	C ₄₉ H ₉₄ O ₂ , (M+H) ⁺
	729.7466	WE C50:2	C ₅₀ H ₉₆ O ₂ , (M+H) ⁺
	743.7603	WE C51:2	C ₅₁ H ₉₈ O ₂ , (M+H) ⁺
	757.7765	WE C52:2	C ₅₂ H ₁₀₀ O ₂ , (M+H) ⁺
	855.7421	TAG 52:4	C ₅₅ H ₉₈ O ₆ , (M+H) ⁺
	857.7573	TAG 52:3	C ₅₅ H ₁₀₀ O ₆ , (M+H) ⁺
	746.7750	WE C50:2	C ₅₀ H ₁₀₀ NO ₂ , (M+NH ₄) ⁺
	874.7848	TAG 52:3	C ₅₅ H ₁₀₄ NO ₆ , (M+NH ₄) ⁺
	876.8021	TAG 52:2	C ₅₅ H ₁₀₆ NO ₆ , (M+NH ₄) ⁺
	1173.1260	Chl-OAHFA	C ₇₉ H ₁₄₆ NO ₄ , (M+NH ₄) ⁺
MS NIM	742.5396	PE 36:2	C ₄₁ H ₇₈ NO ₁₀ P, (M-H) ⁻
	747.5613	TAG C45:8	C ₄₈ H ₇₇ O ₆ , (M-H) ⁻
	835.5319	PI 34:1	C ₄₃ H ₈₀ O ₁₃ P, (M-H) ⁻
	863.5624	PI 36:1	C ₄₅ H ₈₄ O ₁₃ P, (M-H) ⁻
	311.1685	Suspected	
	325.1839	contaminants – alkylbenzene- sulfonates	