Foods

Article

Supplementary materials

Development of a Simultaneous Normal-Phase HPLC Analysis of Lignans, Tocopherols, Phytosterols and Squalene in Sesame Oil Samples

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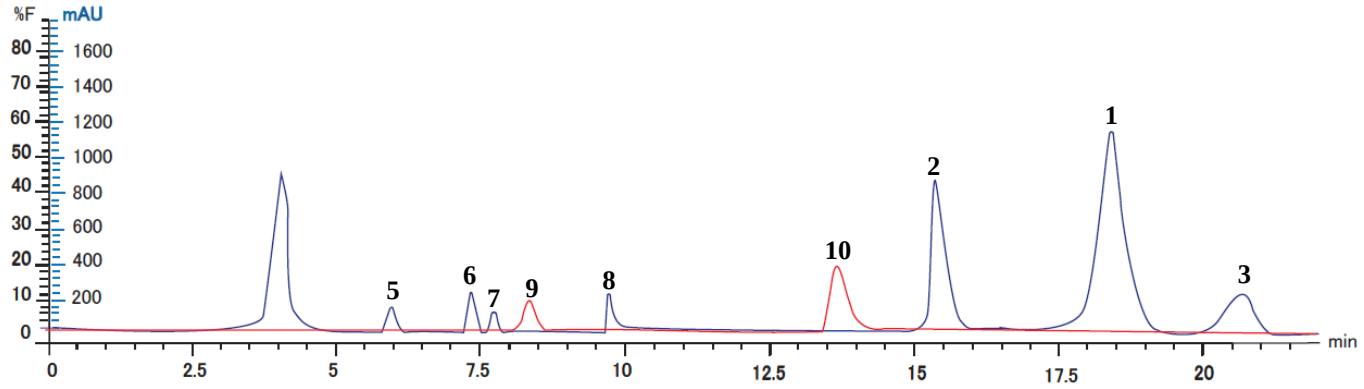
Supplementary Table 1. Detail of sesame oil samples used in this study.

Sample	SO	Description	Source
CPO-1	**(1)**	Cold-pressed white sesame oil (100%)	Thailand
CPO-2	**(2)**	Cold-pressed black sesame oil (100%)	Thailand
CPO-3	**(3)**	Cold-pressed black sesame oil (100%)	Thailand
CPO-4	**(4)**	Cold-pressed black sesame oil (100%)	Thailand
CPO-5	**(5)**	Cold-pressed black sesame oil (100%)	Thailand
CPO-6	**(6)**	Cold-pressed black sesame oil (100%)	Thailand
CPO-7	**(7)**	Cold-pressed black sesame oil (100%)	Thailand
SOS-1	**(8)**	Cold-pressed black sesame oil (100%) in soft gel	Thailand
SOS-2	**(9)**	Cold-pressed black sesame oil (100%) in soft gel	Thailand
SOS-3	**(10)**	Cold-pressed black sesame oil (100%) in soft gel	Thailand
SOS-4	**(11)**	Cold-pressed black sesame oil (100%) in soft gel	Thailand
SCO-1	**(12)**	Sesame oil from roasted white sesame seeds	China
SCO-2	**(13)**	Sesame oil from roasted white sesame seeds	Korea
SCO-3	**(14)**	Sesame oil from roasted white sesame seeds	Korea
SCO-4	**(15)**	Sesame oil from roasted white sesame seeds	Japan
SCO-5	**(16)**	Sesame oil from roasted black sesame seeds	China
SCO-6	**(17)**	Sesame oil from roasted black sesame seeds	China
SCO-7	**(18)**	Sesame oil from roasted black sesame seeds	China
SCO-8	**(19)**	Sesame oil from roasted white sesame seeds (95%) +black sesame seeds (5%)	China
SCO-9	**(20)**	White sesame oil (100%)	Thailand
SCO-10	**(21)**	White sesame oil (100%)	Thailand
SCO-11	**(22)**	Black sesame oil (100%)	India
SCO-12	**(23)**	Black sesame oil (100%)	Singapore
MSCO-1	**(24)**	White sesame oil (50%) +soybean oil (50%)	Singapore
MSCO-2	**(25)**	Black sesame oil (70%) +soybean oil (30%)	Thailand
MSCO-3	**(26)**	Black sesame oil (70%) +soybean oil (30%)	Thailand
MSCO-4	**(27)**	Black sesame oil (80%) +soybean oil (20%)	Thailand
MSCO-5	**(28)**	Sesame oil from roasted black sesame seeds (80%) +soybean oil (20%)	China

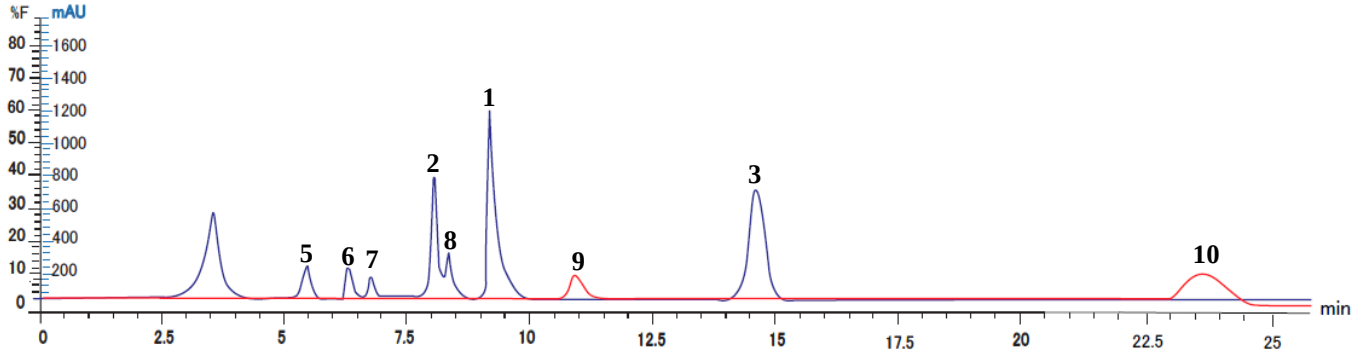
Supplementary Figure 1. Chromatograms of some mobile phase ratios showed effective in the separation of the targeted compounds from the four conditions.

A



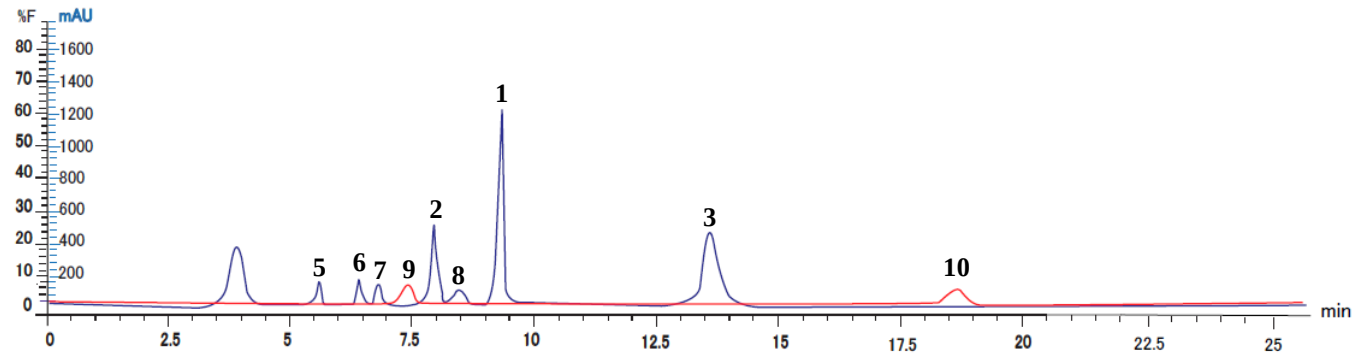
Condition A, a mixture of n-hexane/tetrahydrofuran/acetonitrile/2-propanol (93:6:0.5:0.5, v/v/v/v) using a flow rate of 0.8 mL min^{-1}

B



Condition B, a mixture of n-hexane/tetrahydrofuran/acetonitrile/2-propanol (92:6:1:1, v/v/v/v) using a flow rate of 0.5 mL min^{-1}.

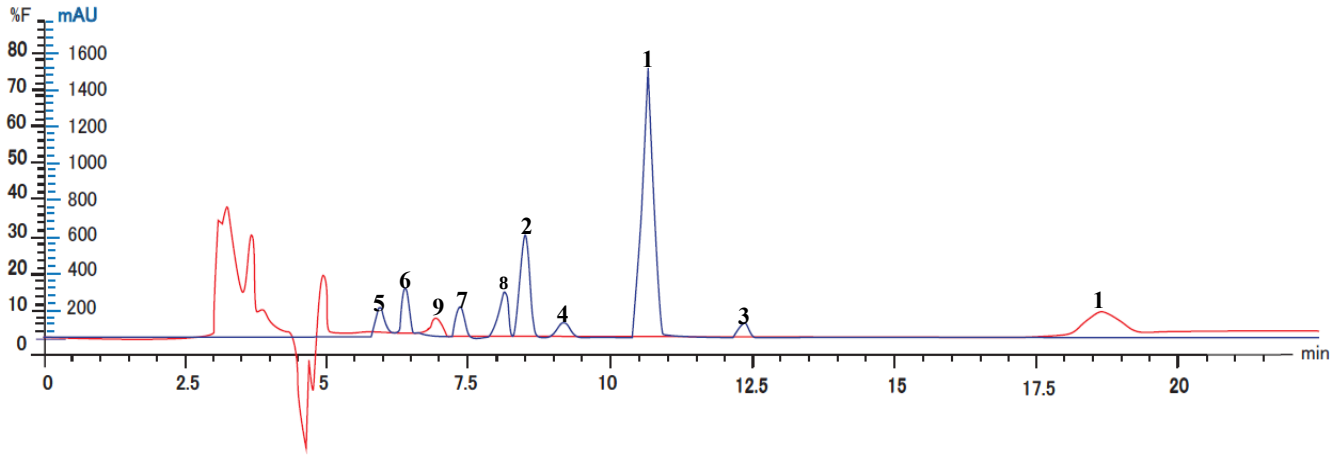
C



Condition C, a mixture of n-hexane/tetrahydrofuran/acetonitrile (93:6:1, v/v/v)

using a flow rate of 1.2 of mL min^{-1}

D



Condition D, a mixture of n-hexane/tetrahydrofuran/2-propanol (93:6:1, v/v/v)

using a flow rate of 0.8 of mL min^{-1}

Peak identification: 1 = Sesamin, 2 = Sesamolin, 3 = Sesamol, 4 = Asarinin, 5 = α-Tocopherol, 6 = β-Tocopherol, 7 = γ-Tocopherol, 8 = δ-Tocopherol, 9 = Squalene, and 10 = Phytosterol.