### Supplemental tables:

Table 1. The fatty acid compositions of sunflowerseed oil products stored at room temperature without light exposure (Group I).

| Storage time (month) | Fatty acids |
|----------------------|-------------|
|                      | C14:0 | C16:0 | C16:1 | C18:0 | C18:1n9c | C18:1n9t | C18:2n6c | C20:0 | C20:1 | C18:3n3 | C22:0 | C20:5 |
|                      | (%)   | (%)   | (%)   | (%)   | (%)      | (%)      | (%)      | (%)   | (%)   | (%)     | (%)   | (%)   |
| 0                    | 0.46±0.01 | 25.36±0.02 | 1.32±0.01 | 19.62±0.02 | 16.33±0.01 | 8.09±0.01 | 76.96±0.01 | 1.37±0.01 | 0.98±0.02 | 1.87±0.01 | 4.12±0.01 | 1.46±0.01 |
| 1                    | 0.45±0.01 | 25.58±0.03 | 1.28±0.02 | 19.93±0.08 | 16.48±0.02 | 8.21±0.01 | 76.74±0.04 | 1.40±0.01 | 0.98±0.01 | 1.87±0.01 | 4.20±0.05 | 1.48±0.03 |
| 2                    | 0.45±0.01 | 25.43±0.02 | 1.32±0.01 | 19.65±0.01 | 16.35±0.01 | 8.05±0.03 | 76.90±0.01 | 1.51±0.02 | 1.06±0.06 | 1.88±0.07 | 4.13±0.01 | 1.50±0.01 |
| 3                    | 0.44±0.01 | 25.41±0.01 | 1.33±0.01 | 19.55±0.03 | 16.41±0.01 | 7.90±0.03 | 76.89±0.01 | 1.43±0.03 | 1.02±0.05 | 1.86±0.04 | 4.14±0.01 | 1.53±0.04 |
| 4                    | 0.44±0.01 | 25.28±0.03 | 1.31±0.01 | 19.70±0.04 | 16.40±0.02 | 7.57±0.02 | 76.91±0.02 | 1.41±0.01 | 1.13±0.08 | 1.87±0.02 | 4.26±0.01 | 1.49±0.01 |
| 5                    | 0.44±0.01 | 25.37±0.01 | 1.27±0.01 | 17.99±0.11 | 16.79±0.01 | 2.63±0.07 | 77.26±0.02 | 5.41±0.03 | 0.75±0.01 | 1.22±0.02 | 2.30±0.01 | 0.57±0.01 |
| 6                    | 0.52±0.01 | 28.53±0.52 | 1.47±0.01 | 19.89±0.57 | 16.77±0.07 | -     | 2.39±0.15 | 77.41±0.07 | 1.17±0.03 | 0.20±0.01 | 0.37±0.01 | 2.90±0.09 | 0.80±0.03 |
| 7                    | 0.52±0.01 | 28.12±0.69 | 1.49±0.01 | 19.41±0.65 | 16.77±0.02 | -     | 2.43±0.08 | 77.49±0.13 | 1.15±0.04 | 0.20±0.01 | 0.38±0.01 | 2.83±0.11 | 0.91±0.03 |
| 8                    | 0.52±0.01 | 28.31±0.71 | 1.48±0.01 | 19.64±0.62 | 16.76±0.03 | -     | 2.52±0.05 | 77.55±0.13 | 1.16±0.03 | 0.20±0.01 | 0.37±0.01 | 2.87±0.10 | 0.80±0.03 |
| 9                    | 0.49±0.01 | 28.05±0.29 | 1.56±0.07 | 19.17±0.04 | 16.81±0.01 | -     | 2.68±0.03 | 77.49±0.02 | 1.11±0.01 | 0.21±0.01 | 0.43±0.03 | 2.62±0.06 | 0.49±0.01 |
| 10                   | 0.51±0.01 | 27.73±0.12 | 1.47±0.01 | 19.28±0.03 | 16.82±0.01 | -     | 2.39±0.11 | 77.50±0.01 | 1.15±0.01 | 0.20±0.01 | 0.37±0.01 | 2.85±0.06 | 0.79±0.03 |
| 11                   | 0.50±0.01 | 27.50±0.10 | 1.46±0.01 | 19.32±0.06 | 16.82±0.02 | -     | 2.25±0.02 | 77.58±0.12 | 1.18±0.01 | 0.19±0.01 | 0.37±0.01 | 3.01±0.04 | 0.98±0.02 |
Table 2. The fatty acid compositions of sunflowerseed oil products stored at room temperature with light exposure (Group II).

| Storage time (month) | C14:0 (%)  | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1n9c (%) | C18:1n9t (%) | C18:2n6t (%) | C18:2n6c (%) | C20:0 (%)  | C20:1 (%)  | C18:3n3 (%) | C22:0 (%) | C20:5 (%) |
|---------------------|------------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|------------|------------|-------------|-----------|----------|
| 0                   | 0.46±0.01  | 25.36±0.02| 1.32±0.01 | 19.62±0.02| 16.33±0.01   | 8.09±0.01    | 76.96±0.01   | 1.37±0.01    | 0.98±0.02  | 1.87±0.01  | 4.12±0.01   | 1.46±0.01 |
| 1                   | 0.46±0.01  | 25.54±0.14| 1.29±0.02 | 19.80±0.37| 16.41±0.15   | 8.17±0.07    | 76.88±0.16   | 1.38±0.04    | 0.98±0.01  | 1.85±0.03  | 4.15±0.12   | 1.46±0.01 |
| 2                   | 0.45±0.01  | 25.43±0.03| 1.32±0.01 | 19.67±0.02| 16.36±0.01   | 8.15±0.06    | 76.85±0.02   | 1.55±0.01    | 1.26±0.04  | 1.97±0.06  | 4.11±0.01   | 1.52±0.01 |
| 3                   | 0.44±0.01  | 25.40±0.02| 1.33±0.01 | 19.57±0.03| 16.43±0.01   | 7.84±0.01    | 76.87±0.02   | 1.42±0.01    | 1.03±0.04  | 1.88±0.04  | 4.14±0.02   | 1.54±0.04 |
| 4                   | 0.44±0.01  | 25.28±0.01| 1.30±0.01 | 19.69±0.01| 16.37±0.01   | 7.56±0.02    | 76.95±0.01   | 1.40±0.01    | 1.10±0.02  | 1.85±0.01  | 4.24±0.01   | 1.48±0.05 |
| 5                   | 0.44±0.01  | 25.43±0.05| 1.27±0.01 | 18.06±0.05| 16.78±0.01   | 2.64±0.01    | 77.26±0.02   | 5.40±0.03    | 0.76±0.01  | 1.23±0.01  | 2.32±0.03   | 0.52±0.01 |
| 6                   | 0.52±0.01  | 29.48±1.37| 1.47±0.01 | 20.86±1.43| 16.61±0.11   | -            | 2.44±0.12    | 77.32±0.25   | 1.23±0.08  | 0.31±0.01  | 0.38±0.01   | 3.10±0.28 | 0.89±0.08 |
| 7                   | 0.52±0.01  | 27.90±0.05| 1.49±0.01 | 19.19±0.12| 16.70±0.11   | -            | 2.56±0.05    | 77.57±0.09   | 1.13±0.01  | 0.31±0.01  | 0.38±0.01   | 2.80±0.05 | 0.95±0.07 |
| 8                   | 0.52±0.01  | 28.54±1.17| 1.48±0.01 | 19.88±1.16| 16.73±0.16   | -            | 2.38±0.15    | 77.42±0.14   | 1.18±0.07  | 0.30±0.01  | 0.39±0.01   | 2.92±0.22 | 0.95±0.12 |
| 9                   | 0.51±0.01  | 28.42±0.05| 1.52±0.02 | 19.09±0.04| 16.79±0.02   | -            | 2.79±0.06    | 77.45±0.02   | 1.08±0.01  | 0.31±0.01  | 0.43±0.01   | 2.53±0.02 | 0.51±0.01 |
| 10                  | 0.51±0.01  | 27.80±0.01| 1.47±0.01 | 19.29±0.03| 16.69±0.10   | -            | 2.46±0.02    | 77.61±0.10   | 1.14±0.01  | 0.31±0.01  | 0.39±0.01   | 2.83±0.01 | 0.81±0.01 |
| 11                  | 0.51±0.01  | 27.42±0.09| 1.45±0.01 | 19.35±0.07| 16.80±0.03   | -            | 2.28±0.03    | 77.57±0.15   | 1.18±0.01  | 0.29±0.01  | 0.38±0.01   | 3.03±0.03 | 1.07±0.01 |
Supplemental tables:

Table 3. The fatty acid compositions of sunflowerseed oil products stored at 25 °C without light exposure (Group III).

| Storage time (month) | C14:0 (%) | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1n9c (%) | C18:1n9t (%) | C18:2n6t (%) | C18:2n6c (%) | C20:0 (%) | C20:1 (%) | C18:3n3 (%) | C22:0 (%) | C20:5 (%) |
|----------------------|-----------|-----------|-----------|-----------|---------------|---------------|---------------|---------------|-----------|-----------|-------------|-----------|-----------|
| 0                    | 0.46±0.01 | 25.36±0.02| 1.32±0.01 | 19.62±0.02| 16.33±0.01    | 8.09±0.01     | 76.96±0.01    | 1.37±0.01    | 0.98±0.02 | 1.87±0.01 | 4.12±0.01   | 1.46±0.01 |           |
| 1                    | 0.46±0.01 | 25.44±0.02| 1.30±0.01 | 19.55±0.02| 16.32±0.01    | 8.13±0.01     | 76.98±0.01    | 1.37±0.01    | 0.99±0.03 | 1.81±0.01 | 4.08±0.01   | 1.47±0.02 |           |
| 2                    | 0.45±0.01 | 25.44±0.02| 1.32±0.01 | 19.66±0.01| 16.36±0.01    | 8.04±0.03     | 76.91±0.01    | 1.50±0.01    | 1.05±0.03 | 1.86±0.05 | 4.12±0.01   | 1.49±0.01 |           |
| 3                    | 0.44±0.01 | 25.40±0.01| 1.33±0.01 | 19.56±0.03| 16.41±0.01    | 7.84±0.01     | 76.89±0.02    | 1.42±0.02    | 1.02±0.03 | 1.86±0.04 | 4.14±0.01   | 1.53±0.02 |           |
| 4                    | 0.44±0.01 | 25.27±0.05| 1.30±0.01 | 19.69±0.03| 16.37±0.01    | 7.59±0.10     | 76.95±0.01    | 1.42±0.01    | 1.13±0.11 | 1.86±0.02 | 4.24±0.01   | 1.48±0.01 |           |
| 5                    | 0.44±0.01 | 25.43±0.01| 1.27±0.01 | 18.11±0.02| 16.78±0.01    | 2.61±0.05     | 77.26±0.01    | 5.34±0.04    | 0.76±0.01 | 1.24±0.01 | 2.35±0.02   | 0.59±0.01 |           |
| 6                    | 0.51±0.01 | 27.86±0.21| 1.47±0.01 | 19.44±0.28| 16.78±0.03    | -              | 2.37±0.04     | 77.51±0.03   | 1.16±0.02 | 0.20±0.01 | 0.37±0.01   | 2.93±0.08 | 0.82±0.03 |
| 7                    | 0.53±0.01 | 28.19±0.51| 1.51±0.01 | 19.06±0.48| 16.75±0.02    | -              | 2.54±0.10     | 77.54±0.09   | 1.10±0.03 | 0.20±0.01 | 0.37±0.01   | 2.67±0.09 | 0.85±0.03 |
| 8                    | 0.52±0.01 | 27.89±0.08| 1.49±0.01 | 19.12±0.16| 16.87±0.03    | -              | 2.41±0.04     | 77.55±0.14   | 1.12±0.01 | 0.21±0.01 | 0.39±0.01   | 2.72±0.05 | 0.75±0.02 |
| 9                    | 0.51±0.01 | 28.46±0.03| 1.56±0.06 | 19.10±0.03| 16.75±0.11    | -              | 2.72±0.02     | 77.51±0.10   | 1.09±0.01 | 0.20±0.01 | 0.41±0.01   | 2.53±0.01 | 0.51±0.01 |
| 10                   | 0.51±0.01 | 27.89±0.08| 1.47±0.01 | 19.29±0.03| 16.81±0.01    | -              | 2.41±0.06     | 77.50±0.02   | 1.14±0.01 | 0.21±0.01 | 0.38±0.01   | 2.81±0.01 | 0.78±0.01 |
| 11                   | 0.50±0.01 | 27.18±0.14| 1.45±0.01 | 19.36±0.05| 16.83±0.01    | -              | 2.33±0.03     | 77.57±0.12   | 1.20±0.02 | 0.19±0.01 | 0.37±0.01   | 3.10±0.08 | 1.07±0.10 |
Table 4. The fatty acid compositions of sunflowerseed oil products stored at 40 °C without light exposure (Group IV).

| Storage time (month) | C14:0 (%) | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1n9c (%) | C18:1n9t (%) | C18:2n6c (%) | C20:0 (%) | C20:1 (%) | C18:3n3 (%) | C22:0 (%) | C20:5 (%) |
|----------------------|------------|------------|------------|------------|---------------|---------------|--------------|------------|------------|--------------|------------|------------|
| 0                    | 0.46±0.01  | 25.36±0.02 | 1.32±0.01  | 19.62±0.02 | 16.33±0.01    | 8.09±0.01     | 76.96±0.01   | 1.37±0.01  | 0.98±0.02  | 1.87±0.01    | 4.12±0.01  | 1.46±0.01  |
| 1                    | 0.46±0.01  | 25.44±0.02 | 1.30±0.01  | 19.56±0.03 | 16.32±0.01    | 8.12±0.01     | 76.96±0.01   | 1.37±0.01  | 1.10±0.01  | 1.90±0.03    | 4.09±0.01  | 1.48±0.01  |
| 2                    | 0.45±0.01  | 25.44±0.03 | 1.32±0.01  | 19.67±0.02 | 16.36±0.01    | 7.99±0.11     | 76.90±0.01   | 1.51±0.01  | 1.05±0.04  | 1.85±0.02    | 4.15±0.01  | 1.52±0.01  |
| 3                    | 0.44±0.01  | 25.37±0.02 | 1.33±0.01  | 19.56±0.01 | 16.41±0.01    | 7.83±0.02     | 76.87±0.02   | 1.49±0.07  | 1.13±0.07  | 1.94±0.06    | 4.13±0.01  | 1.52±0.02  |
| 4                    | 0.44±0.01  | 25.24±0.02 | 1.30±0.01  | 19.66±0.02 | 16.37±0.01    | 7.57±0.03     | 76.95±0.01   | 1.41±0.01  | 1.13±0.03  | 1.88±0.04    | 4.25±0.01  | 1.48±0.01  |
| 5                    | 0.44±0.01  | 25.44±0.01 | 1.27±0.01  | 18.13±0.05 | 16.79±0.01    | 2.58±0.04     | 77.24±0.01   | 5.05±0.01  | 0.75±0.03  | 1.24±0.01    | 2.37±0.06  | 0.63±0.06  |
| 6                    | 0.52±0.01  | 28.82±0.96 | 1.48±0.01  | 20.22±0.98 | 16.77±0.02    | -              | 2.25±0.02    | 77.45±0.37 | 1.20±0.06  | 0.20±0.01    | 0.38±0.01  | 3.03±0.25  | 0.85±0.08 |
| 7                    | 0.52±0.01  | 27.60±0.31 | 1.49±0.01  | 18.79±0.17 | 16.78±0.03    | -              | 2.50±0.01    | 77.59±0.02 | 1.10±0.01  | 0.20±0.01    | 0.38±0.01  | 2.68±0.01  | 1.01±0.01 |
| 8                    | 0.52±0.01  | 28.69±0.07 | 1.48±0.01  | 20.03±0.01 | 16.77±0.01    | -              | 2.37±0.05    | 77.36±0.01 | 1.18±0.01  | 0.21±0.01    | 0.39±0.01  | 2.95±0.02  | 0.82±0.01 |
| 9                    | 0.51±0.01  | 28.48±0.10 | 1.51±0.01  | 19.07±0.01 | 16.79±0.01    | -              | 2.72±0.04    | 77.47±0.02 | 1.08±0.01  | 0.20±0.01    | 0.41±0.01  | 2.52±0.01  | 0.51±0.01 |
| 10                   | 0.51±0.01  | 27.83±0.02 | 1.47±0.01  | 19.26±0.04 | 16.82±0.01    | -              | 2.44±0.05    | 77.50±0.01 | 1.14±0.01  | 0.20±0.01    | 0.38±0.01  | 2.81±0.01  | 0.78±0.01 |
| 11                   | 0.50±0.01  | 27.31±0.04 | 1.45±0.01  | 19.41±0.01 | 16.83±0.01    | -              | 2.32±0.16    | 77.48±0.01 | 1.19±0.01  | 0.19±0.01    | 0.38±0.01  | 3.08±0.01  | 1.09±0.10 |
## Supplemental tables:

### Table 5. The fatty acid compositions of sunflowerseed oil products stored at 55 °C without light exposure (Group V).

| Storage time (month) | C14:0 (%) | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1n9c (%) | C18:1n9t (%) | C18:2n6t (%) | C18:2n6c (%) | C20:0 (%) | C20:1 (%) | C18:3n3 (%) | C22:0 (%) | C20:5 (%) |
|---------------------|----------|----------|----------|----------|--------------|--------------|--------------|--------------|----------|----------|-------------|----------|----------|
| 0                   | 0.46±0.01| 25.36±0.02| 1.32±0.01| 19.62±0.02| 16.33±0.01   | 8.09±0.01    | 76.96±0.01   | 1.37±0.01    | 0.98±0.02| 1.87±0.01| 4.12±0.01   | 1.46±0.01|          |
| 1                   | 0.46±0.01| 25.45±0.01| 1.31±0.01| 19.58±0.04| 16.32±0.01   | 8.13±0.01    | 76.96±0.01   | 1.40±0.04    | 1.03±0.03| 1.95±0.04| 4.08±0.01   | 1.45±0.06|          |
| 2                   | 0.45±0.01| 25.46±0.02| 1.33±0.01| 19.70±0.01| 16.39±0.01   | 8.10±0.08    | 76.85±0.01   | 1.49±0.02    | 1.11±0.04| 1.91±0.03| 4.11±0.02   | 1.48±0.02|          |
| 3                   | 0.44±0.01| 25.40±0.01| 1.33±0.01| 19.57±0.01| 16.42±0.01   | 7.84±0.03    | 76.88±0.01   | 1.42±0.01    | 1.02±0.02| 1.86±0.02| 4.14±0.01   | 1.53±0.01|          |
| 4                   | 0.44±0.01| 25.31±0.02| 1.31±0.01| 19.72±0.01| 16.42±0.01   | 7.58±0.05    | 76.89±0.01   | 1.42±0.01    | 1.12±0.03| 1.87±0.03| 4.25±0.02   | 1.48±0.01|          |
| 5                   | 0.44±0.01| 25.47±0.01| 1.27±0.01| 18.19±0.01| 16.81±0.01   | 2.60±0.02    | 77.21±0.01   | 5.36±0.02    | 0.74±0.01| 1.23±0.01| 2.37±0.01   | 0.66±0.01|          |
| 6                   | 0.52±0.01| 28.16±1.00| 1.48±0.01| 19.64±1.23| 16.81±0.04   | -             | 77.50±0.11   | 1.17±0.08    | 0.20±0.01| 0.38±0.01| 2.93±0.34   | 0.83±0.11|          |
| 7                   | 0.52±0.01| 28.35±0.32| 1.49±0.01| 19.60±0.16| 16.79±0.01   | -             | 77.40±0.03   | 1.16±0.01    | 0.20±0.01| 0.39±0.01| 2.88±0.05   | 1.12±0.02|          |
| 8                   | 0.52±0.01| 28.03±0.81| 1.48±0.01| 19.37±0.78| 16.90±0.05   | -             | 77.54±0.08   | 1.14±0.04    | 0.21±0.01| 0.40±0.01| 2.81±0.14   | 0.80±0.04|          |
| 9                   | 0.50±0.01| 28.31±0.30| 1.55±0.05| 19.17±0.07| 16.84±0.02   | -             | 77.40±0.02   | 1.10±0.02    | 0.20±0.01| 0.43±0.01| 2.58±0.07   | 0.50±0.01|          |
| 10                  | 0.51±0.01| 27.95±0.05| 1.48±0.01| 19.31±0.02| 16.87±0.01   | -             | 77.43±0.02   | 1.14±0.01    | 0.21±0.01| 0.40±0.01| 2.81±0.01   | 0.79±0.01|          |
| 11                  | 0.50±0.01| 27.47±0.09| 1.46±0.01| 19.45±0.03| 16.87±0.01   | -             | 77.56±0.14   | 1.19±0.01    | 0.19±0.01| 0.39±0.01| 3.05±0.03   | 1.23±0.01|          |
### Supplemental tables:

Table 6. The fatty acid compositions of sunflowerseed oil products stored without light exposure at 70 °C for 1 month and then at room temperature for 10 months (Group VI).

| Storage time (month) | C14:0 (%) | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1n9c (%) | C18:1n9t (%) | C18:2n6t (%) | C20:0 (%) | C20:1 (%) | C18:3n3 (%) | C22:0 (%) | C20:5 (%) |
|---------------------|-----------|-----------|-----------|-----------|--------------|--------------|--------------|-----------|-----------|-------------|-----------|-----------|
| 0                   | 0.46±0.01 | 25.36±0.02| 1.32±0.01 | 16.33±0.01| 8.09±0.01    | 2.44±0.02    | 76.96±0.01  | 1.37±0.01 | 0.98±0.02 | 1.87±0.01   | 4.12±0.01 | 1.46±0.01 |
| 1                   | 0.46±0.01 | 25.44±0.03| 1.30±0.01 | 16.34±0.02| 8.17±0.02    | 2.38±0.01    | 76.94±0.05  | 1.38±0.01 | 1.00±0.02 | 1.92±0.08   | 4.11±0.04 | 1.49±0.02 |
| 2                   | 0.45±0.01 | 25.45±0.02| 1.32±0.01 | 16.37±0.01| 8.10±0.06    | 2.45±0.01    | 76.88±0.01  | 1.48±0.01 | 1.07±0.03 | 1.91±0.01   | 4.11±0.02 | 1.50±0.01 |
| 3                   | 0.44±0.01 | 25.39±0.01| 1.33±0.01 | 16.41±0.03| 7.84±0.06    | 2.37±0.05    | 76.89±0.01  | 1.44±0.03 | 1.04±0.01 | 1.89±0.02   | 4.14±0.01 | 1.53±0.02 |
| 4                   | 0.44±0.01 | 25.28±0.01| 1.30±0.01 | 19.70±0.02| 16.39±0.01  | 7.61±0.03    | 76.92±0.02  | 1.42±0.01 | 1.16±0.07 | 1.88±0.03   | 4.25±0.02 | 1.48±0.01 |
| 5                   | 0.44±0.01 | 25.45±0.01| 1.27±0.01 | 18.17±0.02| 16.80±0.01  | 2.61±0.06    | 77.23±0.03  | 5.28±0.07 | 0.76±0.01 | 1.25±0.01   | 2.36±0.01 | 0.58±0.11 |
| 6                   | 0.52±0.01 | 30.43±1.85| 1.46±0.01 | 22.15±2.10| 16.65±0.15  | -             | 2.36±0.17    | 77.02±0.33 | 1.32±0.13 | 0.20±0.01   | 0.38±0.01 | 3.48±0.49 |
| 7                   | 0.51±0.01 | 27.46±0.18| 1.48±0.01 | 18.90±0.03| 16.79±0.01  | -             | 2.45±0.11    | 77.59±0.01 | 1.12±0.01 | 0.20±0.01   | 0.38±0.01 | 2.78±0.06 |
| 8                   | 0.52±0.01 | 29.76±0.51| 1.47±0.01 | 21.18±0.49| 16.69±0.06  | -             | 2.27±0.09    | 77.25±0.10 | 1.25±0.03 | 0.28±0.01   | 0.39±0.01 | 3.19±0.10 |
| 9                   | 0.50±0.01 | 28.26±0.07| 1.58±0.08 | 19.15±0.03| 16.74±0.11  | -             | 2.69±0.02    | 77.61±0.12 | 1.09±0.01 | 0.20±0.01   | 0.41±0.01 | 2.58±0.02 |
| 10                  | 0.51±0.01 | 27.82±0.06| 1.47±0.01 | 19.27±0.01| 16.81±0.01  | -             | 2.47±0.16    | 77.50±0.01 | 1.14±0.01 | 0.21±0.01   | 0.38±0.01 | 2.81±0.01 |
| 11                  | 0.50±0.01 | 27.44±0.02| 1.45±0.01 | 19.44±0.02| 16.83±0.01  | -             | 2.26±0.04    | 77.55±0.13 | 1.19±0.01 | 0.19±0.01   | 0.37±0.01 | 3.03±0.03 |
|                     |           |           |           |           |              |              |              |           |           |              |           |           |
Table 7. The fatty acid compositions of sunflowerseed oil products stored with light exposure at 70 °C for 1 month and then at room temperature for 10 months (Group VII).

| Storage time (month) | C14:0 (%) | C16:0 (%) | C16:1 (%) | C18:0 (%) | C18:1(9c) (%) | C18:1(9t) (%) | C18:2(6t) (%) | C20:0 (%) | C20:1 (%) | C18:3(3n) (%) | C22:0 (%) | C20:5 (%) |
|----------------------|-----------|-----------|-----------|-----------|---------------|---------------|---------------|-----------|-----------|----------------|-----------|-----------|
| 0                    | 0.46±0.01 | 25.36±0.02| 1.32±0.01 | 19.62±0.02| 16.33±0.01    | 8.09±0.01     | 76.96±0.01    | 1.37±0.01 | 0.98±0.02 | 1.87±0.01      | 4.12±0.01 | 1.46±0.01 |
| 1                    | 0.46±0.01 | 25.44±0.03| 1.30±0.01 | 19.60±0.07| 16.34±0.02    | 8.17±0.02     | 76.94±0.05    | 1.38±0.01 | 1.00±0.02 | 1.92±0.08      | 4.11±0.04 | 1.49±0.02 |
| 2                    | 0.45±0.01 | 25.49±0.02| 1.33±0.01 | 19.72±0.03| 16.38±0.01    | 8.07±0.04     | 76.86±0.02    | 1.49±0.01 | 1.06±0.05 | 1.88±0.06      | 4.13±0.01 | 1.51±0.01 |
| 3                    | 0.44±0.01 | 25.39±0.03| 1.33±0.01 | 19.59±0.05| 16.41±0.01    | 7.82±0.06     | 76.88±0.02    | 1.42±0.01 | 1.03±0.02 | 1.86±0.02      | 4.15±0.01 | 1.53±0.01 |
| 4                    | 0.44±0.01 | 25.26±0.04| 1.30±0.01 | 19.70±0.04| 16.38±0.02    | 7.60±0.05     | 76.92±0.02    | 1.43±0.02 | 1.12±0.05 | 1.85±0.01      | 4.25±0.01 | 1.52±0.01 |
| 5                    | 0.44±0.01 | 25.47±0.02| 1.27±0.01 | 18.22±0.08| 16.81±0.03    | 2.59±0.01     | 77.22±0.04    | 5.24±0.06 | 0.75±0.01 | 1.25±0.01      | 2.37±0.02 | 0.53±0.01 |
| 6                    | 0.52±0.01 | 29.51±0.87| 1.47±0.01 | 20.79±0.76| 16.73±0.03    | -              | 77.24±0.16    | 1.22±0.04 | 0.26±0.01 | 0.38±0.01      | 3.07±0.11 | 0.88±0.03 |
| 7                    | 0.52±0.01 | 27.70±0.39| 1.49±0.01 | 18.96±0.28| 16.79±0.01    | -              | 77.56±0.06    | 1.12±0.01 | 0.27±0.01 | 0.38±0.01      | 2.75±0.04 | 0.96±0.06 |
| 8                    | 0.52±0.01 | 29.64±0.76| 1.48±0.01 | 20.97±0.78| 16.73±0.04    | -              | 77.27±0.22    | 1.23±0.05 | 0.20±0.01 | 0.38±0.01      | 3.13±0.15 | 0.90±0.05 |
| 9                    | 0.50±0.01 | 28.31±0.15| 1.54±0.07 | 19.11±0.06| 16.79±0.02    | -              | 77.46±0.02    | 1.10±0.02 | 0.29±0.01 | 0.41±0.01      | 2.58±0.06 | 0.50±0.01 |
| 10                   | 0.53±0.02 | 27.92±0.04| 1.48±0.01 | 19.32±0.03| 16.65±0.02    | -              | 77.64±0.02    | 1.14±0.01 | 0.28±0.01 | 0.39±0.01      | 2.82±0.01 | 0.81±0.01 |
| 11                   | 0.50±0.01 | 27.23±0.04| 1.45±0.01 | 19.43±0.04| 16.84±0.01    | -              | 77.61±0.13    | 1.20±0.01 | 0.28±0.01 | 0.38±0.01      | 3.11±0.02 | 1.12±0.01 |