**Table 1** Edible refined vegetable oils studied.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Designation | Type | Brand | Lot No. | Producer/Distributor |
| A | Soybean | Essential Everyday | 9/22/2014 D9:58 | Supervalu Inc., Eden Prairie, MN |
| B | “ | “ | 12/14/2014 D2:35 | “ |
| C | “ | “ | 11/30/2014 8:35N | “ |
| D | “ | “ | 12/05/2014 1:02N | “ |
| E | “ | “ | 1/10/2015 2:53N | “ |
| F | “ | “ | 12/26/2014 16:51N | “ |
| G | “ | “ | 11/24/14 D5:40 | “ |
| H | “ | “ | 1/1/15 D1:27 | “ |
| I | “ | “ | 1/3/15 17:43N | “ |
| J | “ | America’s Choice | 12/14/2014 10-15N | Pathmark Supermarkets  The Great Atlantic and Pacific Tea Company,  Montvale, NJ |
| K | “ | Foodhold USA | 7/16/2015 1004374 | Giant Foodstores  Carlisle, PA |
| L | “ | Great Value | 1/19/2015 12:19 | Wal-Mart  Bentonville, AR |
| M | “ | White Rose | 12/06/2014 19:13N | White Rose Inc.  Carteret, NJ |
| N | “ | Carlini | Undesignated | Aldi Inc.  Batavia, IL |
| O | “ | Crisco | 12/03/2014 2338420 04:25 | J.M. Smucker Co.  Orrville, OH |
| P | “ | Wesson | 2130317000X12063 12/1/2014 | ConAgra Foods  www.conagrafoods.com |
| Q | Peanut | LouAna | Jun 15/2015 Z01:34 | Ventura Foods, LLC  Brea, CA |
| R | Safflower | LouAna | May 25/2015 Z01:54 | Ventura Foods, LLC  Brea, CA |
| S | Canola | Crisco | Jun 25, 2015 3175420 | J.M. Smucker Co.  Orrville, OH |
| T | Corn | Crisco | May 02/2015 3122420 00:42 | J.M. Smucker Co.  Orrville, OH |
| U | Sunflower | Foodhold | 06/11/15A CSC Lot 1003324 11:07A | Giant Foodstores  Carlisle, PA |

**Table 2** Mean filtration times of vegetable oils

|  |  |  |
| --- | --- | --- |
| **Oil Type** | **Oil Sample** | **Mean Filtration Time**  **(sec)** |
| Soybean | Table 1, Samples B - I | 404 +/- 11 |
| Peanut | Table 1, Sample Q | 525 +/- 1 |
| Safflower | Table 1, Sample R | 587 +/- 18 |
| Canola | Table 1, Sample S | 452 +/- 1 |
| Corn | Table 1, Sample T | 409 +/- 1 |
| Sunflower | Table 1, Sample U | 475 +/- 13 |

**Figure Legends**

**Fig. 1** Filtration apparatus employed. As per ASTM D-7501-12.

**Fig. 2** Relationship of the filtration time of 150 mL of oil A (soybean) to applied vacuum.

**Fig. 3** Correlation of filtration time and kinematic viscosity for various commercial refined vegetable oils. Reading from the left, the oils used were: soybean (average for samples O, K, L of Table 1), corn, canola, sunflower, safflower, peanut. (a) Straight line fit to all data points. R2 = 0.83. (b) Straight line fit to all points except that for safflower oil. R2 =0.96.