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**تقرير البرنامج الوطني  
لتقييم جودة تحاليل المواد الغذائية**

**2006**

:

البرنامج الوطني لتقييم جودة تحاليل المواد الغذائية

هيئة الطاقة الذرية السورية - مكتب ضمان الجودة

إدارة وإعداد: مكتب ضمان الجودة

دمشق، ص.ب. 6091

2006

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(..

.RE

" Z-Score " Z

-1

-2

-3

-1-3

-2-3

-3-3

-4-3

-5-3

-6-3

-7-3

-8-3

-9-3

- 4

-5

-6

-7

-8

-9

: A -10

: B -11

600

-1 :

( )

) annual plants

25°C

[1]

-2 :

-

-

-

-3 :

Refractive index -1-3

25°C

**Acid Value**

**-2-3**

**100gr**

**100gr**

( )

**KOH NaOH**

**: [2]**

$$AcideValue = \frac{M \times N \times V}{W(gr)}$$

**:W**

**NaOH**

**:V NaOH**

**:N NaOH**

**:M :**

**Saponification Number**

**-3-3**

**KOH**

**. [ 3]**

**Iodine Number**

**-4-3**

**100gr**

**KI**

**. [ 3]**

**Peroxide Value**

**-5-3**

**Peroxide Value (PV)**

**. [3]**

**. [3]**

Kjeldahl ( N<sub>total</sub> ) % ( )

-6-3

( Kjeldahl)

.[4]

Moisture %

-7-3

105°C

: 600

-8-3

.( mg/Kg)

: Total count

-9-3

.( cfu / g )

-1

-2

-3

.GC

-4

-5

.Kjeldahl

-6

.KF

-7

600

-8

:

-4

:

-5

.GC

-5

.Kjeldahl

-6

-6

.KF

-7

-7

600

-8

-8

[5] . DIXON

Z

$$Z = \frac{X - \bar{X}}{STD}$$

- X:
- $\bar{X}$
- STD

Z

A	2	Z	(Acceptable)
W	3	Z	(Acceptable with Warning)
N	3	Z	(Not acceptable)

$$RE(\%) = \frac{(X_{lab} - X_{ref})}{X_{ref}} \times 100$$

A	( 10% )	(Acceptable)
N	( % 10 < x < % 30 )	W (Acceptable with Warning)
N	( % 30 < x )	(Not acceptable)

(1)

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-	.		*22
-	.	- -	*23

- \*

: -7

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-1-7

-2-7

( )

-3-7

-8

: -9

[1] - David Furiston , Physical and Chemical Oil ,Fat and Waxes

2nd Edition -2006.

[2]- AACC, American Association of Cereal Chemists, AACC Methods, March 1983

[3]- Kenneth Hebrich , AOAC Official Methods of Analysis, 1995.

[4]-Byron Vaughan, Soil Analysis, 1999.

[5] James E.D<sub>E</sub> Muth , Basic Statistics , USA, 1999.

## الملحق (A)

### النتائج مصنفة وفق العنصر التحليلي

### Refractive index

SEQA-204-062	SEQA-203-062	SEQA-202-062	SEQA-201-062	
( 1.4660 - 1.4700 )	( 1.4760-1.4720 )	( 1.4750-1.4710)	( 1.4740-1.4690)	
1.4659	1.4690	1.4675	1.4689	<b>020</b>
1.4700	1.4730	1.4714	1.4724	<b>022</b>
1.4700	1.4740	1.4720	1.4700	<b>023</b>
1.4695	1.4725	1.4710	1.4720	<b>024</b>
1.4710	1.4720	1.4740	1.4735	<b>025</b>
1.4670	1.3200	1.4460	1.4712	<b>030</b>
1.4633	1.4660	1.4650	1.4658	<b>032</b>

(2)

### Saponification Value

SEQA-204-062	SEQA-203-062	SEQA-202-062	SEQA-201-062	
( 200- 188 )	( 195 - 185 )	( 195 - 187 )	( 196 - 185)	
190.75	187.75	207.54	184.91	<b>020</b>
188.38	187.32	187.47	190.15	<b>021</b>
192.00	193.50	192.90	192.30	<b>023</b>
193.00	194.50	192.50	195.80	<b>024</b>
189.80	193.00	190.90	189.70	<b>025</b>
193.30	196.10	196.50	195.80	<b>029</b>
203.02	190.48	196.15	176.72	<b>030</b>
188.57	190.93	189.71	182.44	<b>032</b>

(3)

### Acid Value

SEQA-204-062	SEQA-203-062	SEQA-202-062	SEQA-201-062	
( 4.00 – 3.50 )	( 0.10-0.17 )	( 1.30-1.80 )	( 0.90 – 0.70 )	
1.88	0.09	0.90	0.44	020
3.64	0.15	2.44	0.82	021
3.71	0.18	1.85	0.89	023
4.18	0.10	2.42	0.80	024
3.64	0.17	2.50	0.84	025
1.84	0.08	1.31	0.41	029
1.82	0.11	1.24	0.476	030
2.54	0.11	1.77	0.57	032

(4)

**Iodine Number**

<b>SEQA-204-062</b>	<b>SEQA-203-062</b>	<b>SEQA-202-062</b>	<b>SEQA-201-062</b>	
<b>( 118 – 112 )</b>	<b>( 111 – 105 )</b>	<b>( 118 - 112 )</b>	<b>( 125 - 120 )</b>	
88.33	93.90	93.54	95.03	<b>020</b>
100.98	126.03	108.39	117.34	<b>021</b>
81.30	109.10	93.90	104.40	<b>023</b>
100.84	123.58	108.98	116.64	<b>025</b>
101.58	126.20	110.60	118.50	<b>029</b>
187.81	189.10	318.98	165.20	<b>030</b>
99.13	122.64	108.65	116.75	<b>032</b>

(5)

**Peroxide Value**

		SEQA-202-062			SEQA-201-062	
0.33	2.40	2.79	0.95	12.21	11.95	020
		2.44			11.86	021
		2.40			11.4	023
		2.5			12.0	025
		*6.5			* 15.0	029
		*1.20			* 8.91	030
		1.87			13.86	032

(6)

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**Peroxide Value**

		<b>SEQA-204-062</b>			<b>SEQA-203-062</b>	
0.78	23.15	24.27	1.83	21.60	20.40	<b>020</b>
		22.71			19.79	<b>021</b>
		23.2			24.40	<b>023</b>
		*29.5			21.50	<b>025</b>
		23.4			20.30	<b>029</b>
		22.17			*17.40	<b>030</b>
		*30.10			23.23	<b>032</b>

(7)

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**Kjeldahl ( N<sub>total</sub> ) % (    )**

		SEQA-206-062			SEQA-205-062	
0.02	0.11	*0.20	0.12	3.98	4.12	<b>020</b>
		0.09			3.92	<b>021</b>
		0.10			*3.64	<b>023</b>
		0.11			4.12	<b>025</b>
		*0.049			3.89	<b>027</b>
		*0.04			3.83	<b>028</b>
		0.10			4.16	<b>031</b>
		0.14			3.88	<b>035</b>
		*1.08			3.98	<b>036</b>

(8)

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**Kjeldahl ( N<sub>total</sub> ) % (      )**

		SEQA-208-062			SEQA-207-062	
0.08	3.87	3.97	0.07	2.66	2.70	<b>020</b>
		3.92			2.76	<b>021</b>
		3.72			2.52	<b>023</b>
		3.87			2.69	<b>025</b>
		3.897			2.712	<b>027</b>
		3.85			2.62	<b>028</b>
		*4.08			*2.92	<b>031</b>
		3.88			2.66	<b>035</b>
		*3.64			2.67	<b>036</b>

(9)

**Moisture %**

		SEQA-206-062			SEQA-205-062	
0.31	10.79	11.03	0.19	2.91	2.79	020
		10.78			2.72	021
		11.12			*3.45	022
		11.15			*10.1	023
		10.87			3.11	024
		10.2			3.09	025
		10.87			3.15	027
		10.43			2.976	028
		10.4			2.7	029
		10.67			2.83	030
		11.15			3.11	031
		10.85			2.68	036
		*9.95			*2.54	037

(10)

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**Moisture %**

		<b>SEQA-208-062</b>			<b>SEQA-207-062</b>	
0.28	2.90	2.74	0.21	2.32	2.33	<b>020</b>
		2.94			2.10	<b>021</b>
		3.13			2.74	<b>022</b>
		*8.30			*10.45	<b>023</b>
		3.06			2.29	<b>024</b>
		2.70			2.30	<b>025</b>
		3.20			2.53	<b>027</b>
		3.51			2.32	<b>028</b>
		2.7			2.10	<b>029</b>
		2.67			2.49	<b>030</b>
		*3.60			2.46	<b>031</b>
		2.76			2.26	<b>036</b>
		2.58			2.01	<b>037</b>

(11)

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**Total Fat %**

		SEQA-205-062			SEQA-205-062	
0.32	0.60	*4.01	4.29	24.41	*16.72	<b>020</b>
		0.64			28.20	<b>021</b>
		0.20			21.46	<b>023</b>
		*0.0			*5.0	<b>025</b>
		0.60			28.0	<b>028</b>
		*0.06			*3.87	<b>029</b>
		0.99			20.00	<b>030</b>

(12)

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**Total Fat %**

		SEQA-208-062			SEQA-207-062	
5.25	24.2	*16.18	0.13	17.97	17.82	<b>020</b>
		28.16			18.09	<b>021</b>
		19.14			*2.34	<b>023</b>
		18			*10	<b>025</b>
		29			18	<b>028</b>
		*3.17			*1.2	<b>029</b>
		26.94			*1.99	<b>030</b>

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**Ash ( mg/Kg) 600**

		SEQA-206-062			SEQA-205-062	
755	4564	* 486	994	57319	*5596	020
		* 3325			57175	021
		5279			*59665	022
		6500			56500	023
		* 0.288			*7.21	024
		3500			58000	025
		*2849			58617	027
		5308			56231	028
		4800			56200	030
		* 2024			57234	031
		4700			*55600	036
		3800			58600	037

(14)

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**Ash ( mg/Kg) 600**

		SEQA-208-062			SEQA-207-062	
940	57645	*5595	1164	38872	*3917	020
		57950			39025	021
		58046			39743	022
		58500			36500	023
		*7.15			*4.31	024
		56000			39000	025
		58129			38797	027
		56405			37475	028
		*55500			39800	030
		57633			39909	031
		*54500			*35300	036
		58500			39600	037

(15)

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**Total count ( CFU / g )**

<b>SEQA-211-062</b>	<b>SEQA-210-062</b>	<b>SEQA-209-062</b>	
<b>( 1500-700 )</b>	<b>( 1500-700 )</b>	<b>( 10 )</b>	
1500	1550	10	<b>020</b>
700	750	10	<b>025</b>
720	700	10	<b>026</b>
950	1100	100	<b>028</b>
800	1300		<b>030</b>
800	900	0	<b>032</b>
1450	1100	10	<b>033</b>
900	750	10	<b>034</b>

(16)

## الملحق (B)

### النتائج مصنفة وفق المخبر

(020)

Refractive Index			Acid Value			
N	1.4689	( 1.4740-1.4690)	W	0.44	( 0.90 – 0.70 )	SEQA-201-062
N	1.4675	( 1.4750-1.4710)	N	0.90	( 1.80-1.30 )	SEQA-202-062
N	1.4690	( 1.4760-1.4720 )	A	0.09	( 0.17-0.10 )	SEQA-203-062
N	1.4659	( 1.4660 – 1.4700 )	N	1.88	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
N	95.03	( 120-115 )	A	184.91	(196 - 185)	A	11.95	12.21	SEQA-201-062
N	93.54	( 110-105 )	N	207.54	(195 - 187)	A	2.79	2.40	SEQA-202-062
N	93.90	( 126-120 )	A	187.75	(195 - 185)	A	20.40	21.60	SEQA-203-062
W	88.33	( 100-95 )	A	190.75	(200– 188)	A	24.27	23.15	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
N	5596	<b>57319</b>	A	16.72	<b>24.82</b>	A	4.12	<b>3.98</b>	SEQA-205-062
N	486	<b>4564</b>	N	4.01	<b>0.60</b>	N	0.20	<b>0.11</b>	SEQA-206-062
N	3917	<b>38872</b>	A	17.82	<b>17.97</b>	A	2.70	<b>2.66</b>	SEQA-207-062
N	5595	<b>57645</b>	A	16.18	<b>24.2</b>	A	3.97	<b>3.87</b>	SEQA-208-062

Moisture %			
A	2.79	<b>2.91</b>	SEQA-205-062
A	11.03	<b>10.79</b>	SEQA-206-062
A	2.33	<b>2.32</b>	SEQA-207-062
A	2.74	<b>2.90</b>	SEQA-208-062

<b>Total count ( CFU / g )</b>			
A	10	( 10 )	SEQA-209-062
A	1550	( 1500-700 )	SEQA-210-062
A	1500	( 1500-700 )	SEQA-211-062

(1)

( 021 )

Refractive Index			Acid Value			
-		( 1.4740-1.4690 )	A	0.82	( 0.90 – 0.70 )	SEQA-201-062
-		( 1.4750-1.4710 )	N	2.44	( 1.80-1.30 )	SEQA-202-062
-		( 1.4760-1.4720 )	A	0.15	( 0.17-0.10 )	SEQA-203-062
-		( 1.4660 – 1.4700 )	A	3.64	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
A	117.34	( 120-115 )	A	190.15	(196 - 185)	A	11.86	12.21	SEQA-201-062
A	108.39	( 110-105 )	A	187.47	(195 - 187)	A	2.44	2.40	SEQA-202-062
A	126.03	( 126-120 )	A	187.32	(195 - 185)	A	19.79	21.60	SEQA-203-062
A	100.98	( 100-95 )	A	188.38	(200– 188)	A	22.71	23.15	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	57175	<b>57319</b>	A	28.20	<b>24.82</b>	A	3.92	<b>3.98</b>	SEQA-205-062
A	3325	<b>4564</b>	A	0.64	<b>0.60</b>	A	0.09	<b>0.11</b>	SEQA-206-062
A	39025	<b>38872</b>	A	18.09	<b>17.97</b>	A	2.76	<b>2.66</b>	SEQA-207-062
A	57950	<b>57645</b>	A	28.16	<b>24.2</b>	A	3.92	<b>3.87</b>	SEQA-208-062

Moisture %			
A	2.72	<b>2.91</b>	SEQA-205-062
A	10.78	<b>10.79</b>	SEQA-206-062
A	2.10	<b>2.32</b>	SEQA-207-062
A	2.94	<b>2.90</b>	SEQA-208-062

(2)

( 022 )

Refractive Index			Acid Value			
A	1.4724	( 1.4740-1.4690 )	-		( 0.90 – 0.70 )	SEQA-201-062
A	1.4714	( 1.4750-1.4710 )	-		( 1.80-1.30 )	SEQA-202-062
W	1.4730	( 1.4760-1.4720 )	-		( 0.17-0.10 )	SEQA-203-062
A	1.4700	( 1.4660 – 1.4700 )	-		( 4.00 – 3.50 )	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
W	59665	57319	-		24.82	-		3.98	SEQA-205-062
A	5279	4564	-		0.60	-		0.11	SEQA-206-062
A	39743	38872	-		17.97	-		2.66	SEQA-207-062
A	58046	57645	-		24.2	-		3.87	SEQA-208-062

<b>Moisture %</b>			
W	3.45	<b>2.91</b>	<b>SEQA-205-062</b>
A	11.12	<b>10.79</b>	<b>SEQA-206-062</b>
A	2.74	<b>2.32</b>	<b>SEQA-207-062</b>
A	3.13	<b>2.90</b>	<b>SEQA-208-062</b>

(3)

( 023 )

Refractive Index			Acid Value			
A	1.4700	( 1.4740-1.4690)	A	0.89	( 0.90 – 0.70 )	SEQA-201-062
A	1.4720	( 1.4750-1.4710)	A	1.85	( 1.80-1.30 )	SEQA-202-062
W	1.4740	( 1.4760-1.4720 )	A	0.18	( 0.17-0.10 )	SEQA-203-062
A	1.4700	( 1.4660 – 1.4700 )	A	3.71	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
N	104.4	( 120-115 )	A	192.30	(196 - 185)	A	11.4	12.21	SEQA-201-062
N	93.9	( 110-105 )	A	192.90	(195 - 187)	A	2.40	2.40	SEQA-202-062
N	109.1	( 126-120 )	A	193.50	(195 - 185)	A	24.4	21.60	SEQA-203-062
N	81.3	( 100-95 )	A	192.0	(200– 188)	A	23.2	23.15	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	56500	<b>57319</b>	A	21.46	<b>24.82</b>	W	3.64	<b>3.98</b>	SEQA-205-062
W	6500	<b>4564</b>	A	0.2	<b>0.60</b>	A	0.10	<b>0.11</b>	SEQA-206-062
A	36500	<b>38872</b>	N	2.34	<b>17.97</b>	A	2.52	<b>2.66</b>	SEQA-207-062
A	58500	<b>57645</b>	A	19.14	<b>24.2</b>	A	3.72	<b>3.87</b>	SEQA-208-062

Moisture %			
N	10.1	<b>2.91</b>	SEQA-205-062
A	11.15	<b>10.79</b>	SEQA-206-062
N	10.45	<b>2.32</b>	SEQA-207-062
N	8.30	<b>2.90</b>	SEQA-208-062

(4)

( 024 )

Refractive Index			Acid Value			
A	1.4720	( 1.4740-1.4690)	A	0.80	( 0.90 – 0.70 )	SEQA-201-062
A	1.4710	( 1.4750-1.4710)	N	2.42	( 1.80-1.30 )	SEQA-202-062
A	1.4725	( 1.4760-1.4720 )	A	0.10	( 0.17-0.10 )	SEQA-203-062
A	1.4695	( 1.4660 – 1.4700 )	A	4.18	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
-		( 120-115)	A	195.80	(196 - 185)	-		12.21	SEQA-201-062
-		(110-105)	A	192.50	(195 - 187)	-		2.40	SEQA-202-062
-		(126-120)	A	194.50	(195 - 185)	-		21.60	SEQA-203-062
-		(100-95)	A	193.00	(200– 188)	-		23.15	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
N	7.21	57319	-		24.82	-		3.98	SEQA-205-062
N	0.288	4564	-		0.60	-		0.11	SEQA-206-062
N	4.31	38872	-		17.97	-		2.66	SEQA-207-062
N	7.15	57645	-		24.2	-		3.87	SEQA-208-062

Moisture %				
A		3.11	2.91	SEQA-205-062
A		10.87	10.79	SEQA-206-062
A		2.29	2.32	SEQA-207-062
A		3.06	2.90	SEQA-208-062

(5)

( 025 )

Refractive Index			Acid Value			
A	1.4735	( 1.4740-1.4690)	A	0.84	( 0.90 – 0.70 )	SEQA-201-062
A	1.4740	( 1.4750-1.4710)	N	2.50	( 1.80-1.30 )	SEQA-202-062
A	1.4720	( 1.4760-1.4720 )	A	0.17	( 0.17-0.10 )	SEQA-203-062
W	1.4710	( 1.4660 – 1.4700 )	A	3.64	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
A	116.64	( 120-115 )	A	189.70	(196 - 185)	A	12.0	12.21	SEQA-201-062
A	108.98	( 110-105 )	A	190.90	(195 - 187)	A	2.5	2.40	SEQA-202-062
A	123.58	( 126-120 )	A	193.00	(195 - 185)	A	21.5	21.60	SEQA-203-062
A	100.84	( 100-95 )	A	189.80	(200– 188)	N	29.5	23.15	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	58000	57319	N	5.0	24.82	A	4.12	3.98	SEQA-205-062
A	3500	4564	W	0.0	0.60	A	0.115	0.11	SEQA-206-062
A	39000	38872	N	10	17.97	A	2.69	2.66	SEQA-207-062
A	56000	57645	A	18	24.2	A	3.87	3.87	SEQA-208-062

Moisture %			
A	3.09	2.91	SEQA-205-062
A	10.2	10.79	SEQA-206-062
A	2.30	2.32	SEQA-207-062
A	2.70	2.90	SEQA-208-062

<b>Total count ( CFU / g )</b>			
A	10	( 10 )	SEQA-209-062
A	750	( 1500-700 )	SEQA-210-062
A	700	( 1500-700 )	SEQA-211-062

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(026)

Total count ( CFU / g )			
A	10	( 10 )	SEQA-209-062
A	700	( 1500-700 )	SEQA-210-062
A	720	( 1500-700 )	SEQA-211-062

(7)

(027)

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	58617	57319	—		24.82	A	3.899	3.98	SEQA-205-062
W	2849	4564	—		0.60	N	0.049	0.11	SEQA-206-062
A	38797	38872	—		17.97	A	2.712	2.66	SEQA-207-062
A	58129	57645	—		24.2	A	3.897	3.87	SEQA-208-062

Moisture %			
A	3.15	2.91	SEQA-205-062
A	10.87	10.79	SEQA-206-062
A	2.53	2.32	SEQA-207-062
A	3.20	2.90	SEQA-208-062

(8)

( 028 )

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	56231	<b>57319</b>	A	28.0	<b>24.82</b>	A	3.83	<b>3.98</b>	SEQA-205-062
A	5308	<b>4564</b>	A	0.6	<b>0.60</b>	N	0.04	<b>0.11</b>	SEQA-206-062
A	37475	<b>38872</b>	A	18	<b>17.97</b>	A	2.62	<b>2.66</b>	SEQA-207-062
A	56405	<b>57645</b>	A	29	<b>24.2</b>	A	3.85	<b>3.87</b>	SEQA-208-062

Moisture %			
A	2.976	<b>2.91</b>	SEQA-205-062
A	10.434	<b>10.79</b>	SEQA-206-062
A	2.32	<b>2.32</b>	SEQA-207-062
W	3.513	<b>2.90</b>	SEQA-208-062

<b>Total count ( CFU / g )</b>			
N	100	( 10 )	<b>SEQA-209-062</b>
A	1100	( 1500-700 )	<b>SEQA-210-062</b>
A	950	( 1500-700 )	<b>SEQA-211-062</b>

(9)

( 029 )

Refractive Index			Acid Value			
—		( 1.4740-1.4690 )	W	0.41	( 0.90 – 0.70 )	SEQA-201-062
—		( 1.4750-1.4710 )	A	1.31	( 1.80-1.30 )	SEQA-202-062
—		( 1.4760-1.4720 )	W	0.08	( 0.17-0.10 )	SEQA-203-062
—		( 1.4660 – 1.4700 )	N	1.84	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
A	118.5	( 120-115 )	A	195.8	(196 - 185)	W	15.0	12.21	SEQA-201-062
A	110.6	( 110-105 )	W	196.5	(195 - 187)	N	6.5	2.40	SEQA-202-062
A	126.2	( 126-120 )	W	196.1	(195 - 185)	A	20.3	21.60	SEQA-203-062
A	101.58	( 100-95 )	A	193.3	(200– 188)	A	23.4	23.15	SEQA-204-062

C 600			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
Ash ( mg/ Kg)									
—		<b>57319</b>	N	3.87	<b>24.82</b>	—		<b>3.98</b>	SEQA-205-062
—		<b>4564</b>	A	0.06	<b>0.60</b>	—		<b>0.11</b>	SEQA-206-062
—		<b>38872</b>	N	1.2	<b>17.97</b>	—		<b>2.66</b>	SEQA-207-062
—		<b>57645</b>	N	3.17	<b>24.2</b>	—		<b>3.87</b>	SEQA-208-062

Moisture %			
A	2.70	<b>2.91</b>	SEQA-205-062
A	10.40	<b>10.79</b>	SEQA-206-062
A	2.10	<b>2.32</b>	SEQA-207-062
A	2.70	<b>2.90</b>	SEQA-208-062

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( 030 )

Refractive Index			Acid Value			
A	1.4712	( 1.4740-1.4690)	W	0.476	( 0.90 – 0.70 )	SEQA-201-062
N	1.4460	( 1.4750-1.4710)	A	1.24	( 1.80-1.30 )	SEQA-202-062
N	1.3200	( 1.4760-1.4720 )	A	0.11	( 0.17-0.10 )	SEQA-203-062
A	1.4670	( 1.4660 – 1.4700 )	N	1.82	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
N	165.20	( 120-115 )	N	176.72	(196 - 185)	N	8.91	12.21	SEQA-201-062
N	318.98	( 110-105 )	W	196.15	(195 - 187)	N	1.20	2.40	SEQA-202-062
N	189.10	( 126-120 )	A	190.48	(195 - 185)	W	17.40	21.60	SEQA-203-062
N	187.81	( 100-95 )	W	203.02	(200– 188)	A	22.17	23.15	SEQA-204-062

<b>600 C °</b> <b>Ash ( mg/ Kg)</b>			<b>%</b> <b>Total Fat ( % )</b>			<b>%</b> <b>Kjeldahl (Ntotal) %</b>			
A	56200	<b>57319</b>	A	20.00	<b>24.82</b>	—		<b>3.98</b>	SEQA-205-062
A	4800	<b>4564</b>	A	0.99	<b>0.60</b>	—		<b>0.11</b>	SEQA-206-062
A	39800	<b>38872</b>	N	1.99	<b>17.97</b>	—		<b>2.66</b>	SEQA-207-062
W	55500	<b>57645</b>	A	26.94	<b>24.2</b>	—		<b>3.87</b>	SEQA-208-062

<b>Moisture %</b>				
A		2.83	<b>2.91</b>	SEQA-205-062
A		10.67	<b>10.79</b>	SEQA-206-062
A		2.49	<b>2.32</b>	SEQA-207-062
A		2.67	<b>2.90</b>	SEQA-208-062

<b>Total count ( CFU / g )</b>			
A		( 10 )	<b>SEQA-209-062</b>
A	1300	( 1500-700 )	<b>SEQA-210-062</b>
A	800	( 1500-700 )	<b>SEQA-211-062</b>

(11)

( 031 )

Refractive Index			Acid Value			
—		( 1.4740-1.4690 )	—		( 0.90 – 0.70 )	SEQA-201-062
—		( 1.4750-1.4710 )	—		( 1.80-1.30 )	SEQA-202-062
—		( 1.4760-1.4720 )	—		( 0.17-0.10 )	SEQA-203-062
—		( 1.4660 – 1.4700 )	—		( 4.00 – 3.50 )	SEQA-204-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	57234	57319	—		24.82	A	4.16	3.98	SEQA-205-062
W	2024	4564	—		0.60	A	0.10	0.11	SEQA-206-062
A	39909	38872	—		17.97	N	2.92	2.66	SEQA-207-062
A	57633	57645	—		24.2	W	4.08	3.87	SEQA-208-062

**Moisture %**

A	3.11	<b>2.91</b>	<b>SEQA-205-062</b>
A	11.15	<b>10.79</b>	<b>SEQA-206-062</b>
A	2.46	<b>2.32</b>	<b>SEQA-207-062</b>
W	3.60	<b>2.90</b>	<b>SEQA-208-062</b>

(12)

( 032 )

Refractive Index			Acid Value			
W	1.4658	( 1.4740-1.4690)	W	0.57	( 0.90 – 0.70 )	SEQA-201-062
N	1.4650	( 1.4750-1.4710)	A	1.77	( 1.80-1.30 )	SEQA-202-062
N	1.4660	( 1.4760-1.4720 )	A	0.11	( 0.17-0.10 )	SEQA-203-062
W	1.4633	( 1.4660 – 1.4700 )	W	2.54	( 4.00 – 3.50 )	SEQA-204-062

Iodine Number			Saponification Value			Peroxide value			
A	116.75	( 120-115 )	W	182.44	(196 - 185)	A	13.86	12.21	SEQA-201-062
A	108.65	( 110-105 )	A	189.71	(195 - 187)	A	1.87	2.40	SEQA-202-062
A	122.64	( 126-120 )	A	190.93	(195 - 185)	A	23.23	21.60	SEQA-203-062
A	99.13	( 100-95 )	A	188.57	(200– 188)	N	30.10	23.15	SEQA-204-062

<b>Total count ( CFU / g )</b>			
A	0	( 10 )	<b>SEQA-209-062</b>
A	900	( 1500-700 )	<b>SEQA-210-062</b>
A	800	( 1500-700 )	<b>SEQA-211-062</b>

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( 033 )

Total count ( CFU / g )			
A	10	( 10 )	SEQA-209-062
A	1100	( 1500-700 )	SEQA-210-062
A	1450	( 1500-700 )	SEQA-211-062

(14)

**( 034 )**

<b>Total count ( CFU / g )</b>			
A	10	10	SEQA-209-062
A	750	700-1500	SEQA-210-062
A	900	700-1500	SEQA-211-062

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( 035 )

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
—		57319	—		24.82	A	3.88	3.98	SEQA-205-062
—		4564	—		0.60	A	0.14	0.11	SEQA-206-062
—		38872	—		17.97	A	2.66	2.66	SEQA-207-062
—		57645	—		24.2	A	3.88	3.87	SEQA-208-062

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600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	55600	57319	—		24.82	A	3.98	3.98	SEQA-205-062
A	4700	4564	—		0.60	N	1.08	0.11	SEQA-206-062
W	35300	38872	—		17.97	A	2.67	2.66	SEQA-207-062
W	54500	57645	—		24.2	W	3.64	3.87	SEQA-208-062

Moisture %			
A	2.68	2.91	SEQA-205-062
A	10.85	10.79	SEQA-206-062
A	2.26	2.32	SEQA-207-062
A	2.76	2.90	SEQA-208-062

(037)

Moisture %			
A	2.54	2.91	SEQA-205-062
W	9.95	10.79	SEQA-206-062
A	2.01	2.32	SEQA-207-062
A	2.58	2.90	SEQA-208-062

600 C ° Ash ( mg/ Kg)			% Total Fat ( % )			% Kjeldahl (Ntotal) %			
A	58600	57319	—		24.82	—		3.98	SEQA-205-062
A	3800	4564	—		0.60	—		0.11	SEQA-206-062
A	39600	38872	—		17.97	—		2.66	SEQA-207-062
A	58500	57645	—		24.2	—		3.87	SEQA-208-062

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