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**THE BIOCHEMICAL CHARACTERISTIC OF SEED OIL OF SOME MORPHOLOGICAL MUTANTS
OF SUNFLOWER**
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The results of the biochemical analysis of oil of mutant and initial (control) lines of sunflower which were differed by morphological signs were compared. The mutants with definite marker signs which have the oil with some changes in eicosanoic acids ratio were revealed.

Keywords: sunflower, mutant lines, oil structure.

.. (,1978), . . (,1980).
(70 %),
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68
4-7% (, 1987).
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(, 2007).

2, 3 4 (.1, 2) ().

“ – 1”.

100 %.

1.

	-102
1	Viridis -
2	-
3	
4	Virescent -
	-169
5	Xantha - 4-6
6	
7	Whitish -
	-9
8	

2.

	, %				, %			
-102	2,89	7,23	6,56	5,6 ±2,34	0,66	2,67	2,11	1,8 ±1,04
1	2,39	5,97	6,12	4,8 ±2,11	0,63	2,66	2,07	1,8 ±1,14
2	2,53	6,45	6,49	5,2 ±3,27	0,69	3,00	2,17	1,9 ±1,17
3	3,26	5,68	6,25	5,1 ±1,59	0,58	2,38	2,05	1,7 ±0,96
4	3,24	6,93	6,41	5,5 ±1,20	0,74	1,56	1,13	1,1 ±0,41
-169	1,99	5,10	6,01	4,4 ±2,11	0,98	4,57	2,77	2,8 ±1,80
5	1,99	4,87	4,69	3,9 ±1,61	0,97	4,54	1,43	2,3 ±1,94
6	7,29	4,13	5,10	5,5 ±1,62	2,84	4,44	3,57	3,6 ±0,80
7	3,04	6,08	5,74	4,9 ±1,67	0,72	2,38	1,97	1,7 ±0,86
-9	3,18	4,78	-	3,9 ±1,31	2,70	2,54	-	2,4 ±0,37
8	2,96	5,09	4,63	4,2 ±1,12	1,31	4,67	3,88	3,3 ±1,26
	, %				, %			
-102	23,29	19,12	20,35	20,3 ±2,66	73,16	70,97	70,98	72,4 ±1,22
1	12,83	26,70	14,32	17,9 ±7,61	83,62	64,64	77,48	75,3 ±9,69
2	16,56	22,70	15,52	18,3 ±3,88	80,22	67,85	75,82	76,6 ±6,27

3	21,35	21,53	21,40	21,4 ±0,09	74,81	70,41	70,30	71,8 ±2,57	
4	8,48*	13,31	6,46*	9,4 ±3,52*	87,53*	78,20	86,00*	83,9 ±5,00*	
.	-169	30,55	31,59	27,15	29,8 ±2,32	66,47	58,73	64,07	63,1 ±3,96
5	22,94	36,76	20,86	26,9 ±8,64	74,29	53,82	73,03	67,1 ±11,47	
6	21,84	18,52*	17,28*	19,2 ±2,36*	68,04	72,91*	74,05*	71,8 ±3,19*	
7	21,17*	17,50*	17,41*	18,7 ±2,15*	75,07*	74,04*	74,88*	74,7 ±0,55*	
.	-9	49,65	45,33	-	47,5 ±3,06	44,47	47,35	-	45,9 ±2,04
8	26,47*	30,15*	27,89	28,2± 1,86*	69,26*	60,07*	63,60	64,3 ±4,63*	

1.; . . -
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(.1, 2),

virescent 72,2 – 87,5%,
-102 14,0 – 17,0 %.
whitish. -169 , 15%.

” ”,
-169 9,9 – 14,2 % ”,
-9 12,7 –24,8%.

1.

-169 8,7%, 11,6%, -102 11,5%, -9

18,4%.

2.

3.

virescent whitish,

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VII

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