

Ukraine
System of quality (ДСТУ ISO/IEC 17025)
Odessa State Border control and toxicological laboratory

65016, Odessa, Ukraine, Vanni 5-17266403-20

PROTOCOL № 5010
of samples testing
On the 04^h of December, 2018



Customer, address, Tel/Fax: «VIDOM BUD» LLC Ukraine, 54001, Nikolaev, Shevchenko str, house 59-A
Production name: Pumpkin seeds, Pumpkin Seeds kernels
Date of production: Crop 2018
Production consignment size/Lot: 21 200 kg Lot: 18-92
Transport: SK379LV/SK825LR
Statement of selection: numberless of December, 03, 2018
Producing company: «VIDOM BUD» LLC Ukraine, 54001, Nikolaev, Shevchenko str, house 59-A
Date of receiving the samples for the researches December, 03, 2018
Period of the researches: December, 03, 2018 - December, 04, 2018
Object of the researches is the samples testing for meeting the requirements of GOST 12046 - 85 "Seeds"
 MER 5061-89, «Allowable levels of radioactive nuclides Cs-137 та Sr-90 in foodstuff and drinking water» (GN 6.6.1.1-130-2006).

Results of the researches:

№	Titles of the researches items and figures	Factual value	Allowable level	Documents and researching methods	Deviation
1	2	3	4	5	6
1.	Humidity, %	4.8	<7,0	GOST 16833-71	0,05 %
2.	Admixture, %	not found	<0,1	GOST 16833-71	-
3.	Sulphur dioxide (E220), %	<0,0005	< 0,005	DSTU ISO 5523:2007	
Aflatoxins content, mg/kg					
4.	Aflatoxin <i>B</i> ₁	< 0,0005*	< 0,005	MV 4082-86	
5.	Aflatoxin <i>B</i> ₂	< 0,0005*	unregulated	MV 4082-86	
6.	Aflatoxin <i>G</i> ₁	< 0,0005*	unregulated	MV 4082-86	
7.	Aflatoxin <i>G</i> ₂	< 0,0005*	unregulated	MV 4082-86	
Pesticides residual quantity content, mg/kg					
8.	γ-HCH	< 0,001*	unregulated	DSTU EN 1528-1:2003	
9.	DDT	< 0,007*	unregulated		
10.	Aldrin	< 0,001*	not allowable		
11.	Heptachlorine	< 0,001*	not allowable		
Toxic elements content, mg/kg					
12.	Lead	<0,003*	<0,5	GOST 30178-96	
13.	Cadmium	< 0,005*	<0,1	GOST 30178-96	
14.	Arsenic	< 0,08*	<0,3	GOST 30178-96	
15.	Copper	1,6	< 15,0	GOST 30178-96	0.08 %
16.	Mercury	< 0,003*	<0,05	DSTU ISO 6637-2001	
Radioactivity, Bq/kg					
17.	Cesium-137	<2,79*	<70	MI-12-08-99	40%
18.	Strontium-90	< 4,83*	< 10	MI-12-08-99	40%
Microbiological indicators					
19.	Anaerobic sulfite-reductors, 1,0	not found	not allowable	GOST 29185-91	
20.	Clostridium perfringens, 1,0	not found	not allowable	GOST 10444.9-75	

* -Method Detection Limit (MDL)

Conclusion: The sample meets the requirements of: GOST 16833-71, MBR 5061- 89, GN 6.6.1.1-130-2006.

The researchers:

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