

7. Test results:**No. 2621 X. 1st category white beet sugar.**

Toxic elements:						
No.	Name of indicators, unit of measure	ND for test methods	Acceptable levels	Test result	Uncertainty, U (k=2, P=0,95)	Compliance note
1	Lead, mg/kg	МББ 7.2.107	0.5	<0,001*	Not defined	Compliant
2	Cadmium, mg/kg	МББ 7.2.107	0.05	<0,0001*	Not defined	Compliant
3	Arsenic, mg/kg	МББ 7.2.107	1.0	<0,0001*	Not defined	Compliant
4	Mercury, mg/kg	МББ 7.2.107	0.01	<0,0001*	Not defined	Compliant
Physicochemical parameters:						
No.	Name of indicators, unit of measure	ND for test methods	Acceptable levels	Test result	Uncertainty, U (k=2, P=0,95)	Compliance note
1	Wt % moisture (loss on drying), not more than	ДСТУ 3659:2023	0.06	0.054	± 0.005	Compliant
2	Wt % polarisation, not less than	ДСТУ 3661:2023	99.7	99.75	± 0.05	Compliant
3	Wt % invert sugar, not more than	ДСТУ 3945-2000	0.04	0.028	± 0.003	Compliant
4	Wt % conductometric ash (on dry matter basis), not more than	ДСТУ 4872:2007	0.027	0.024	± 0.002	Compliant
5	Colour in solution, ICUMSA units, not more than	ДСТУ 4866:2007	45.0	40.0	± 2.0	Compliant
6	Wt % ferroalloy content, not more than	ДСТУ 4244:2003	0.0003	Not detected	Not defined	Compliant
7	Wt % starch and its degradation products, not more than	ДСТУ 4865:2006	0.0015	0.00020	± 0.00003	Compliant
Microbiological parameters:						
No.	Name of indicators, unit of measure	ND for test methods	Acceptable levels	Test result	Uncertainty, U (k=2, P=0,95)	Compliance note
1	Number of mesophilic aerobic bacteria and facultative anaerobic microorganisms, CFU/g, not more than	ДСТУ 4323:2004	1,0x10 ³	<1,5x10 ¹	Not defined	Compliant
2	Colibacillus (coliform bacteria) per 1.0 g	ГОСТ 30518-97	Not permitted	Not detected	Not defined	Compliant
3	Pathogenic microorganisms, including Salmonella bacteria, per 25 g	ДСТУ EN 12824:2004	Not permitted	Not detected	Not defined	Compliant
4	Mould fungi, CFU/g, not more than	ДСТУ 4323:2004	10	< 10	Not defined	Compliant
5	Yeasts, CFU/g, not more than	ДСТУ 4323:2004	10	< 10	Not defined	Compliant
Molecular genetic indicators:						
No.	Name of indicators, unit of measure	ND for test methods	Acceptable levels	Test result	Uncertainty, U (k=2, P=0,95)	Compliance note
	Genetically modified organisms (GMOs)	ДСТУ ISO 21569:2008	Not detected ¹	Not defined		Compliant

Note: ¹ 35S+FMV promoter and NOS (nopaline synthase) terminator from Agrobacterium tumefaciens — not detected. Method detection limit: 0.1%

Notes:

*the sensitivity limit of the device

Responsible performers :

Head of the sector _____ Svitlana SHELEST
 Head of the sector _____ Svitlana LOZENKO
 Leading chemist _____ Maryna PARKHOMENKO
 Chemist of the 1st category _____ Julia YUROVA

Responsible for drawing up the test protocol: _____ Svitlana LOZENKO