

Summary

Analysis and extraction from the original laboratory report conducted by Bálint Analitika Kft Budapest, Hungary, European Union

Ensynox organic enzyme degradation

Test method(s):

MSZ EN 13657:2003 ; EPA 6020B:2014 ; MSZ 21470-105:2009NA ; MSZ 21470-94:2009NA ; TPH-GC.

Experimental investigation:

At 23° C in the laboratory the samples were treated in glassware with sterile glass pipettes.
50 mg Ensynox is added to the samples. The tests were conducted based on the methods specified above.

Testing of the heavy metal, metal and semi-metal content of waste samples

Date received: 12.02.2026.

Date of designation: 03.03.2026.

Kód		26-1786/1	26-1786/8		
Sample List of elements		Untreated original value	Oil sludge 21. day extract	Neutralization rate	Residue
The preparation of the sample/ End of the test				%	%
Ag - Silver	mg/kg	0,06	<0,05	50	50
As - Arsenic	mg/kg	0.15	<0,05	67	33
B - Boron	mg/kg	0,31	<0,05	90,4	9,6
Ba - Barium	mg/kg	3,23	2,72	16,00	84,00
Cd - Cadmium	mg/kg	0,81	0,06	92,6	7,4
Co – Cobalt	mg/kg	132	<0,05	99,98	0,02
Cr – Chromium	mg/kg	3,08	0,15	95,2	4,8
Cu - Copper	mg/kg	2,09	1,93	8,00	92,00
Hg - Mercury	mg/kg	2,40	<0,05	98,75	1,25
Mo - Molybdenum	mg/kg	63,4	<0,05	99,93	0,07
Ni - Nickel	mg/kg	0,13	0,15	----	+
Pb – Lead	mg/kg	0,21	0,16	24,00	76,00
Sb – Antimony	mg/kg	<0.05	<0,05	----	----
Se – Selenium	mg/kg	0,11	<0,05	55	45
Sn – Tin	mg/kg	0,87	0,14	84	16
Zn - Zink	mg/kg	4.91	5,11	----	+

Ensynox organic enzyme degradation***Testing of the heavy metal, metal and semi-metal content of waste samples****

Date received: 12.02.2026.

Date of designation: 03.03.2026.

Kód		26-1786/1	26-1786/8		
Sample List of elements		Untreated original value	Sewage sludge Mud 21. day extract	Neutralization rate	Residue
The preparation of the sample/ End of the test		04.03.	04.24.	%	%
Ag - Silver	mg/kg	0,13	0,06	53,85	46,15
As - Arsenic	mg/kg	0,21	0,06	71,43	28,57
B - Boron	mg/kg	16,4	<0,05	99,82	0,18
Ba - Barium	mg/kg	12,30	5,92	51,87	48,13
Cd - Cadmium	mg/kg	0,12	<0,05	75,00	25,00
Co - Cobalt	mg/kg	0,07	<0,05	57,15	42,85
Cr - Chromium	mg/kg	0,73	0,26	64,39	35,61
Cu - Copper	mg/kg	6,07	3,25	46,46	53,54
Hg - Mercury	mg/kg	1,92	<0,05	97,40	2,60
Mo - Molybdenum	mg/kg	0,22	0,09	59,10	40,90
Ni - Nickel	mg/kg	0,53	0,19	64,16	35,84
Pb - Lead	mg/kg	0,38	0,29	23,69	76,31
Sb - Antimony	mg/kg	<0,05	<0,05	----	----
Se - Selenium	mg/kg	0,08	0,01	87,50	12,50
Sn - Tin	mg/kg	0,53	0,30	33,40	56,60
Zn - Zink	mg/kg	16,9	10,7	36,69	63,31

* in the original laboratory test the sample was nominated as „Mud”



Ensynox organic enzyme degradation***TPH-GC Test Results for Waste Samples NA
(Dry matter content)
mg/kg***

Date received: 12.02.2026.

Designated: 03.03.2026

Lab code	Pattern sign	Sample preparation Start/end of study			TPH-GC	Neutralization rate 21. day	Residue 21. day
26- 21. day 1786/1	Oil sludge original value	2026.04.09./04.30.	C5-12 C13-40	84100 645000	729000	90,54%	9,46%
26-1786/2	Sludge/Mud original value	2026.04.09./04.30.	C5-12 C13-40	29,4 2310	2340	83,77%	16,23%
26-1786/4	Oil sludge 5 days	2026.04.09./04.30.	C5-12 C13-40	9600 72400	82000		
26-1786/5	Oil sludge 10 days	2026.04.09./04.30.	C5-12 C13-40	9100 64900	74000		
26-1786/6	Oil sludge 15 days	2026.04.09./04.30.	C5-12 C13-40	8300 61700	70000		
26-1786/7	Oil sludge 20 days	2026.04.09./04.30.	C5-12 C13-40	8100 60900	69000		
26-1786/8	Oil sludge 21 days	2026.04.09./04.30.	C5-12 C13-40	8100 60900	69000		
26-1786/9	Mud 5 days	2026.04.09./04.30.	C5-12 C13-40	<20 500	520		
26-1786/10	Sludge 10 days	2026.04.09./04.30.	C5-12 C13-40	<20 390	410		
26-1786/11	Mud 15 days	2026.04.09./04.30.	C5-12 C13-40	<20 370	390		
26-1786/12	Sludge 20 days	2026.04.09./04.30.	C5-12 C13-40	<20 370	390		
26-1786/13	Mud 21 days	2026.04.09./04.30.	C5-12 C13-40	<20 360	380		

Lower limit of measurement C5-C12: 20 mg/kg for

Lower limit of measurement C13-C40: 20 mg/kg for

TPH – GC C5-C40 reporting limit of the Bálint Analitika Kft. testing laboratory: 40 mg/kg for s.a.

^{NA} The given test is not an activity accredited by NAH.