Sampledescription

Table 1 – analyzed sample description.

Description	Active ingredient	Nominal value
TrenA 100 100 mg/ml 10 ml UFC Pharm (pic 1)	Trenbolone acetate	100 mg/ml

Pic. 1 – Sample appearance.

Sample preparation for analysis

Table 2 – Sample preparation.

Preparation
50 ulofthesamplewasmixedwith1500 uldichloromethaneinavial.

Analysis

Chromatographic separation (GC).

Column: Tr-5ms, 30 m.
Carrier gas: helium.
Flow rate: 1.2 ml/min.
Split flow rate: 12 ml/min.
Split: 10.
Injector: PTVinjector, final temperature (transfer) 290 °C.
Inject 1ul.

Split program in table 3.

Table3 – splitprogram.

Ramp	**Rate (°C/min)**	**Temp, °C**	**Hold**
Initial		35	1.70
Ramp 01	30	41	2.00
Ramp 02	20	310	15

Mass-spectrometricdetector (ionictrap) wasusedfordetection (m/z 50-650).

Identification: DBNist, librarySWDrug.

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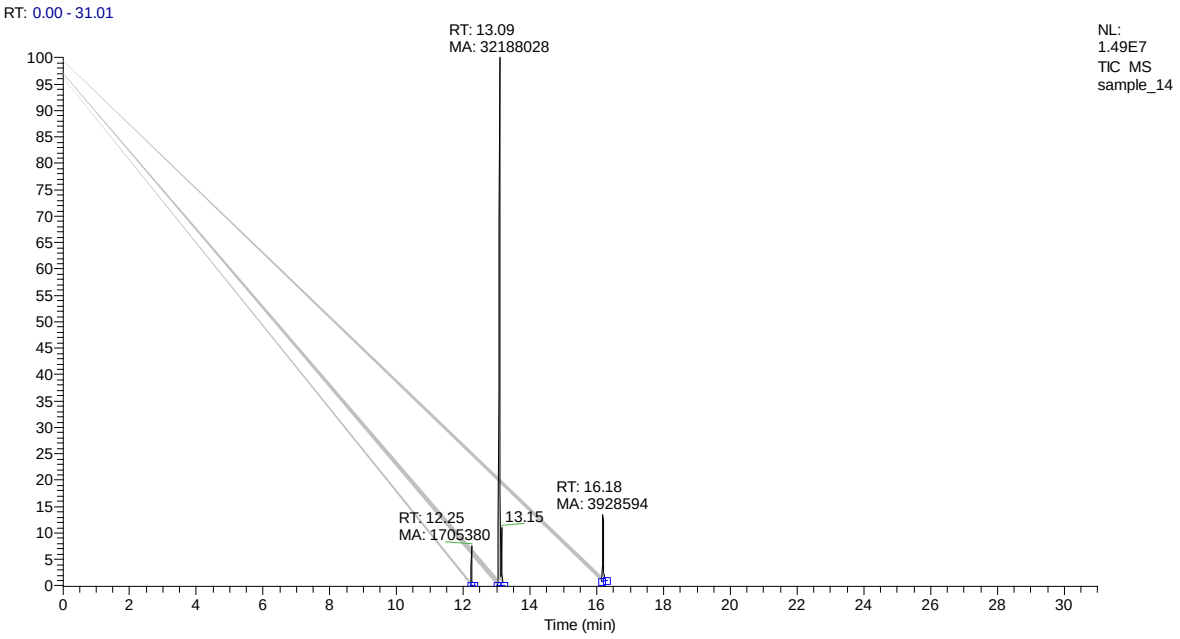
Sample.



Pic 2 – Chromatogram of the sample.Retention time of active ingredient is18.58мин.

Table 4 – Identified ingredients of the sample.

Retention time	Substance	Peak area	Response factor	content, mg/ml
13.09	Ethyloleate	13 810 216	0.82	
18.58	Trenbolone acetate	3 928 594		101

Results

Table 5 – Analysis results.

Active ingredient	Content of an active ingredientmg/ml	Foundexepients
Trenbolone acetate	101	Ethyl oleate.