

Sample description

Table 1 – analyzed sample description.

Description	Active ingredient	Nominal value
Test C300 300 mg/ml 10 ml UFC Pharm (pic 1)	Testosterone cypionate	300 mg/ml



Pic. 1 – Sample appearance.

Sample preparation for analysis

Table 2 – Sample preparation.

Preparation
50 ul of the sample were mixed with 1500 ul of hexane and 1500 ul of dichloromethane in a vial.

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

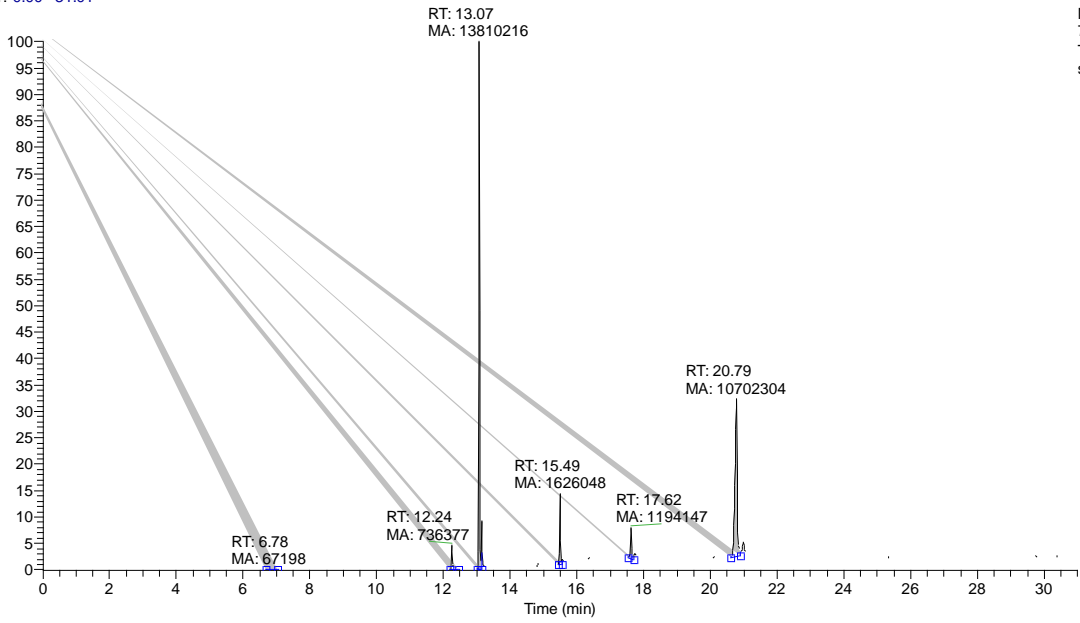
Mass-spectrometricdetector (ionitrap) wasusedfordetection (m/z 50-650).

Identification: DBNist, librarySWDrug.

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Sample.

RT: 0.00 - 31.01



NL:
7.62E6
TIC MS
sample_10

Pic 2 – Chromatogram of sample. Retention time of active ingredient is 20.79 мин.

Table 4 – Identified ingredients of the sample.

Retention time	Substance	Peak area	Response factor	content, mg/ml
6.56	Benzylalcohol	67 198	0.82	
13.10	Ethylolate	13 810 216		
20.79	Testosterone cypionate	10 702 304		300

Results

Table 5 – Analysis results.

Active ingredient	Content of an active ingredientmg/ml	Foundexipients
Testosterone cypionate	300	Benzylalcohol. Ethyl oleate.