

Sample description

Description	Active substance	Nominal Value
Blister(50 tabs) Tabletform – hexagone Label – UFC. OXAN 25 MG EXP. NOV/2018 (picture 1)	Oxandrolone	10mg/tab



Picture 1 Sample appearance

Sample preparation for analysis

Preparation
Two tablets were milled. Powder was dissolved in 20 ml of acetonitrile in 50 ml PP test tube. Filtered solution was used for analysis.

To estimate content of the active substance

1.5 ml of the filtered solution was transferred to preliminary weighed test tube and evaporated under vacuum.

Gravimetric analysis.

Sample	Macca, mg
Empty test tube (m_0)	1011.0
Test tube after evaporation (m_{fin})	1014.3
Weight of dried residue (m_s)	3.3
Weight of active substance per 1 tablet	10,9

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 (ionictap) wasusedfordetection (m/z 50-650).

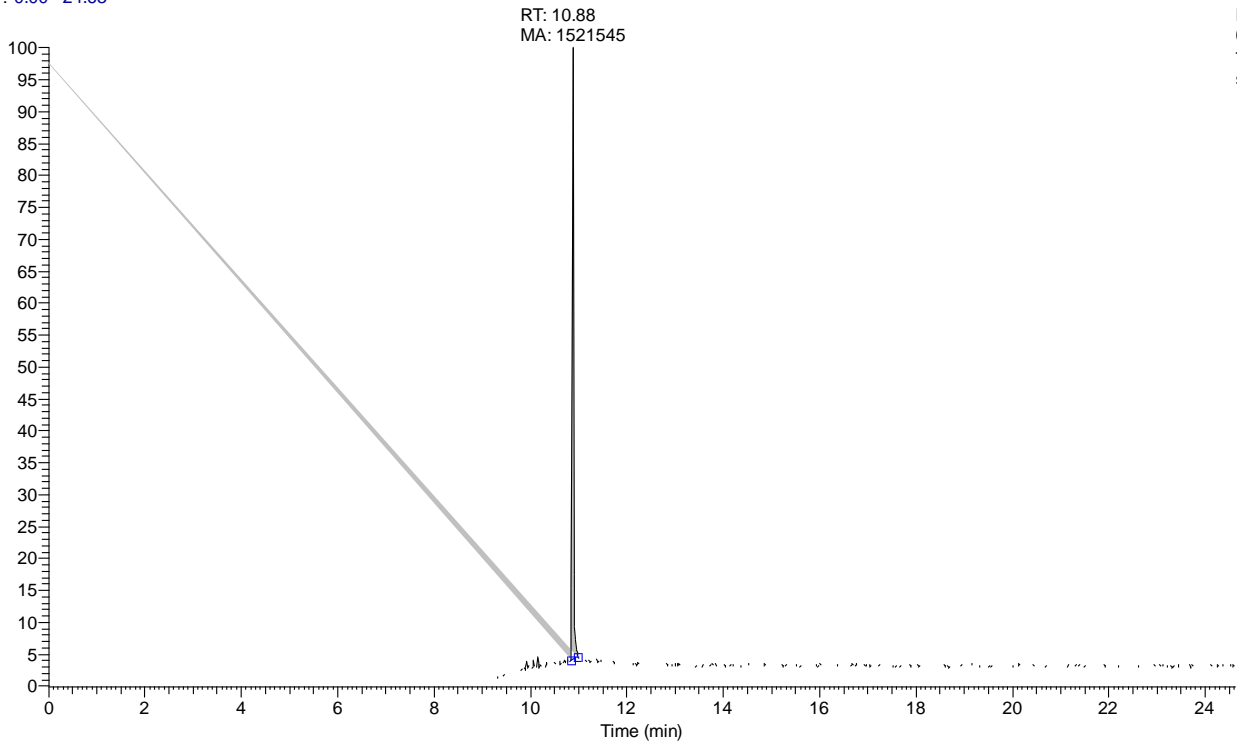
Identification: DBNist, librarySWDrug.

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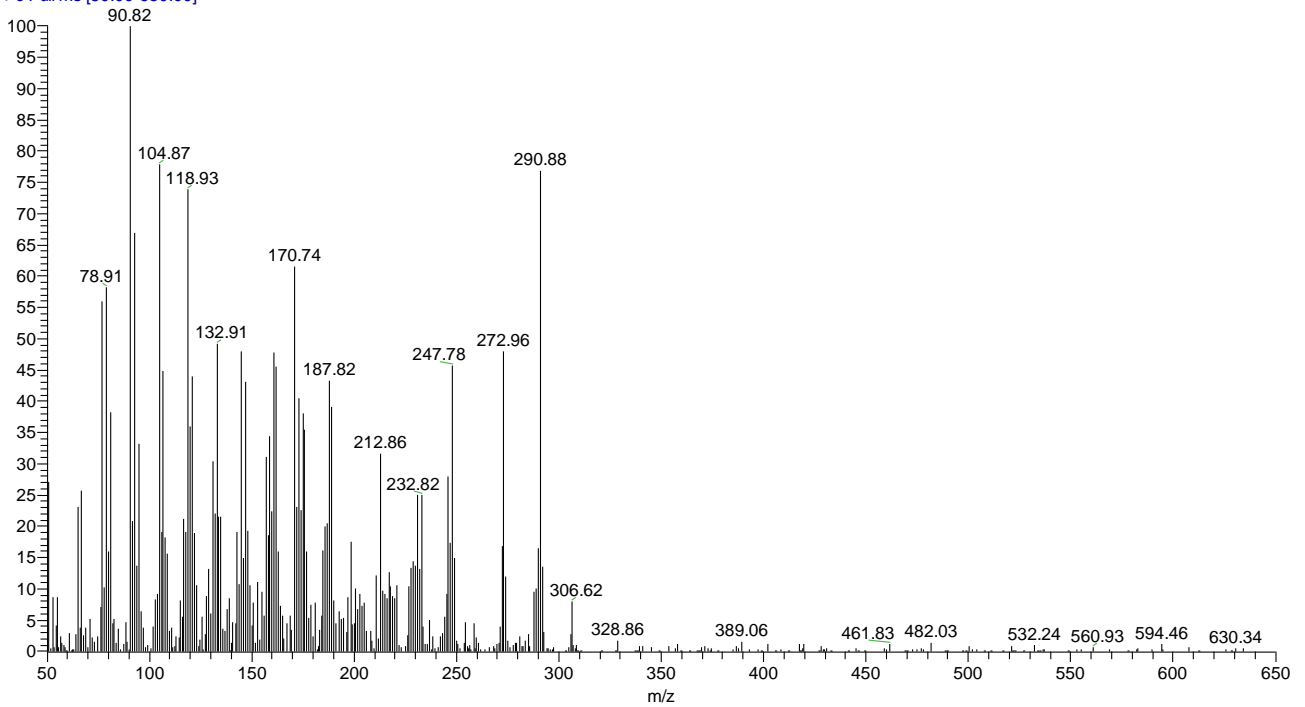
Sample

RT: 0.00 - 24.63

NL:
6.35E5
TIC MS
sample_21



sample_21 #431-434 RT: 10.86-10.90 AV: 4 SB: 14 10.97-11.18 NL: 1.39E4
T: + c Full ms [50.00-650.00]



Picture2 – Chromatogram and mass-specter of the sample. Retention time of methandrostenolone 10.88 min.
Mass-specter MW 306.

Results

Active substance	Content per tablet
oxandrolone	10.9