

## Sample description

<b>Description</b>	<b>Active substance</b>	<b>Nominal Value</b>
Blister( 50 tabs) Tabletform – hexagone Label – UFC. OXIN 25 MG EXP. NOV/2018 (picture 1)	Oximetholone	25mg/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 ( $m_0$ )	1012.7
Test tube after evaporation ( $m_{fin}$ )	1017.0
Weight of dried residue ( $m_s$ )	3.8
Weight of active substance per 1 tablet	25,3

## 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.

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

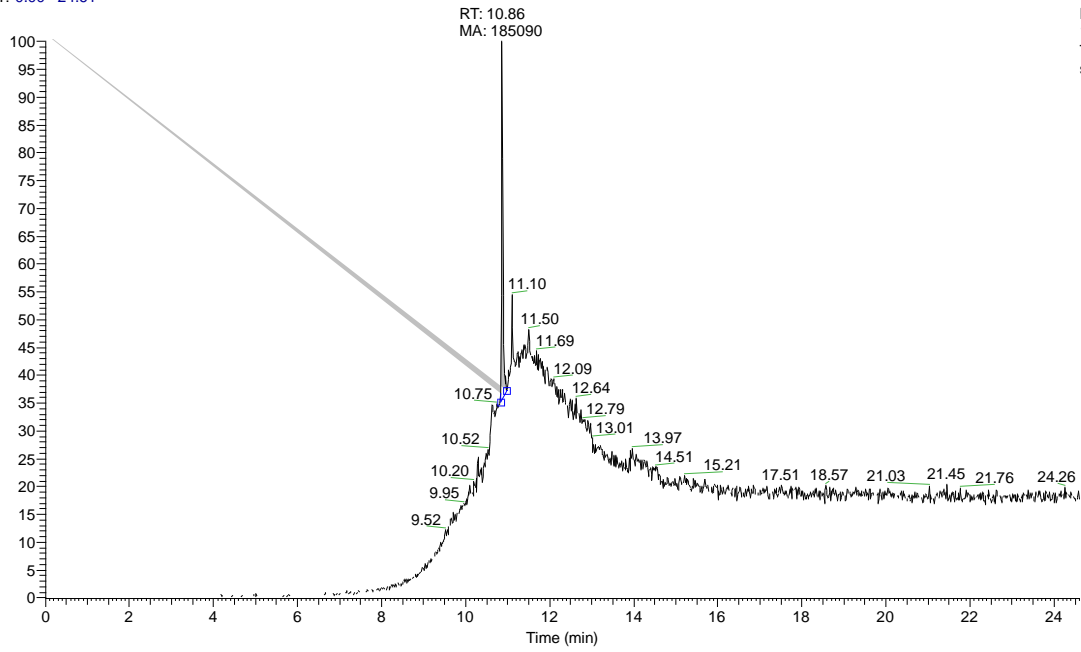
Mass-spectrometricdetector (ionictap) wasusedfordetection (m/z 50-650).

Identification: DBNist, librarySWDrug.

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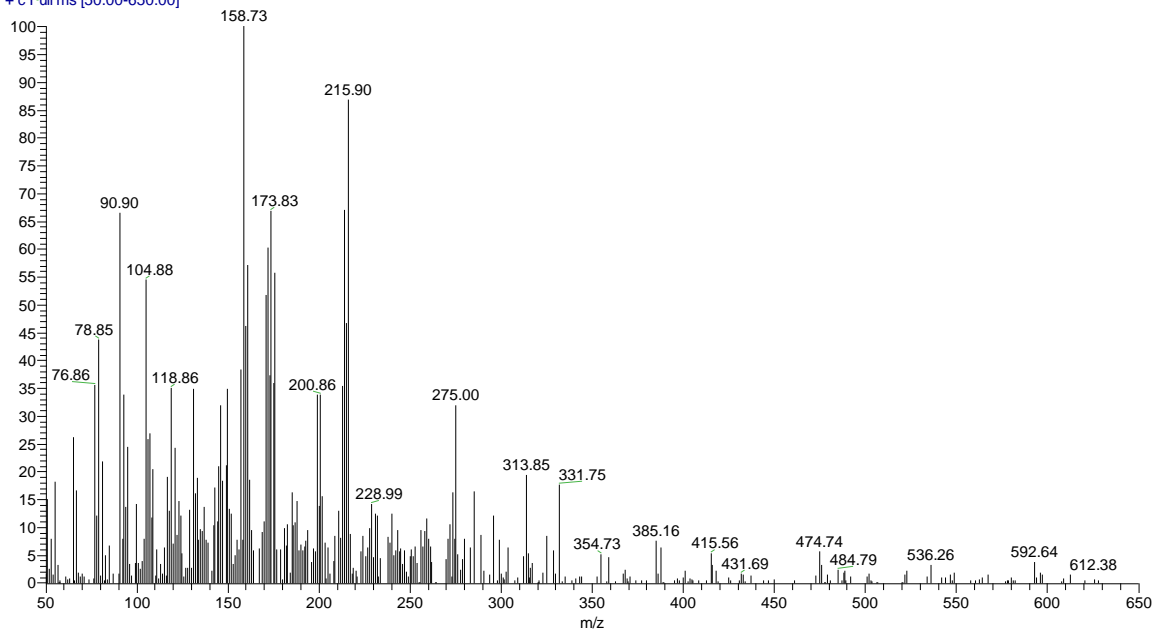
# Sample

RT: 0.00 - 24.61



NL:  
1.23E5  
TIC MS  
sample\_20

sample\_20 #431-433 RT: 10.86-10.89 AV: 3 SB: 9 10.96-11.09 NL: 1.77E3  
T: + c Full ms [50.00-650.00]



Picture2 – Chromatogram and mass-specter of the sample. Retention time of methandrostenolone 10.86 min.  
Mass-specter MW 332.

## Results

Active substance	Content per tablet
oxymetholone	25.3