



Protocol from analyses of Ostarine content in capsules.

Sample:	Ostarine capsules, Magnus Pharmaceuticals, 10 mg/capsule
Scratch Code:	AC4-ZF9UO7H2
Mfg. Date:	-
Exp. Date:	-
Standard preparation:	About 10 mg of authentic Ostarine standard was weighed and transferred into 25 ml volumetric flask. The flask was filled with 20 ml of HPLC purity methanol (MeOH), shake for 1 minute and then put to ultrasonic bath for 20 minutes. After cooling to room temperature, flask was filled to the mark with MeOH. Aliquot volume was transferred into autosampler vial and 0.2 µl was injected to HPLC-DAD instrument.
Sample preparation:	10 capsules of Ostarine were weighed, capsules were emptied and after cleaning by flow of gaseous nitrogen, shells were weighed again. Average weight of capsule content (AWC) was calculated. Two independent weighing from inner content of capsules were transferred into 25 ml volumetric flasks. Flasks were filled with 20 ml of MeOH, shake for 1 minute and then put to ultrasonic bath for 20 minutes. After cooling to room temperature, flasks were filled to the mark with MeOH, centrifuged at 9000 RPM for 5 minutes. Aliquot volumes were transferred into autosampler vials and 0.2 µl was injected to HPLC-DAD instrument.
Method of analyses:	HPLC-DAD instrument was used for analyses of Ostarine using external calibration with authentic standard of Ostarine. Areas under peaks of Ostarine at 244 nm were measured and average amounts of Ostarine per capsule were calculated from two samples.

Calculation:

Ostarine					
Standard	Weight (mg)	9.79	Concentration (mg/ml)	0.3916	
	Volumetric flask (ml)	25	Inj. volume (ul)	0.2	
244 nm	Purity (%)	100	Area (mAU*s)	571.22913	
	Weight of 10 cps (g)	2.77654	AWC (mg/cps)	202.549	
	Weight of 10 shells (g)	0.75105			
Sample	Sample weight (mg)	Vol. flask (ml)	Inj. volume (ul)	Area	Amount (mg/cps)
m1	202.88	25	0.2	548.138	9.379
m2	203.18	25	0.2	691.04541	11.807
Average					10.59
STDEV					1.717
RSD (%)					16.21
Dif. (%)					-22.92
% of L.C.	10 mg/cps				105.93

Conclusion:

Found amount of Ostarine in "Ostarine capsules, Magnus Pharmaceuticals, 10 mg/capsule, Scratch Code: AC4-ZF9UO7H2" is 10.593 mg per capsule what represents 105.93% of label claim. There is a big difference between amounts of Ostarine in two independent weighing of inner content of capsules (about 23%) what means that content is not probably homogenous. Nevertheless average content fits label claim.

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13.3.2018

Date

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