



Protocol from analyses of Andarine content in capsules.

Sample:	Andarine capsules, Magnus Pharmaceuticals, 25 mg/capsule
Scratch Code:	AC3-61EW899J
Mfg. Date:	-
Exp. Date:	-
Standard preparation:	About 5 mg of authentic Andarine standard was weighed and transferred into 10 ml volumetric flask. The flask was filled with 8 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 Andarine 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 50 ml volumetric flasks. Flasks were filled with 40 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 Andarine using external calibration with authentic standard of Andarine. Areas under peaks of Andarine at 244 nm were measured and average amounts of Andarine per tablet were calculated from two samples.

Calculation:


Andarine					
Standard	Weight (mg)	5.46	Concentration (mg/ml)	0.546	
	Volumetric flask (ml)	10	Inj.volume (ul)	0.2	
244 nm	Purity (%)	100	Area (mAU*s)	637.6759	
	Weight of 10 cps (g)	2.777	AWC (mg/cps)	202.553	
	Weight of 10 shells (g)	0.75147			
Sample	Sample weight (mg)	Vol.flask (ml)	Inj.volume (ul)	Area	Amount (mg/cps)
m1	199.15	50	0.2	631.8989924	24.380
m2	205.13	50	0.2	645.286985	25.334
Average					24.857
STDEV					0.674
RSD (%)					2.71
Diff. (%)					-3.84
% of L.C.		25 mg/cps			99.43

Conclusion:

Found amount of Andarine in "Andarine capsules, Magnus Pharmaceuticals, 25 mg/capsule, Scratch Code: AC3-61EW899J" is 24.867 mg per capsule what represents 99.43% of label claim.

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Date


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