

## Andriol (testosterone undecanoate)

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### [Andriol](#)

#### [\(testosterone undecanoate\)](#)

[Andriol](#) is testosterone with the undecanoate ester attached, and produced in oral form. It represents the first real attempt to create an oral testosterone since Methyl testosterone. I can only assume that the scientists responsible for this wanted to create a viable alternative to both injectable testosterones (which, at least for Hormone Replacement Therapy, is inconvenient), as well as other oral forms of testosterone (which have traditionally been very harsh on the liver). What they came up with has proven to be a very odd steroid in many ways.

To create [Andriol](#), the scientists involved had to come up with a solution to the problems facing [Methyltestosterone](#), namely the fact that it is harsh on the liver and needs to be taken in very high doses to produce decent results. What they did was put 40mgs of [testosterone undecanoate](#) in oleic acid (an oil), and encapsulate it. Now they use castor oil and propylene glycol laurate instead of oleic acid, but that only increases the shelf life, and doesn't do anything else. For some of the aspiring chemists reading this, you may be asking yourself the obvious question. And the answer is yes, you can take almost any estrified drug ([nandrolone decanoate](#), for example), and dissolve it in castor oil and propylene glycol laurate, and create your own "Deca Caps" or whatever. The problem is that you'd need to be able to make sealed gel caps, not just the typical 2-part capsules most people throw steroid powder in. Anyway, I'm digressing; lets get back to [Andriol](#). After you put some [testosterone undecanoate](#) in castor oil and propylene glycol laurate, you'll have a testosterone which is highly fat-soluble due to the (very large) undecanoate ester attached to it, and able to be absorbed through your small intestine via the lymphatic system. What this means is that it avoids the "first pass" through the liver, a process which could destroy much of the active steroid, and place an undue amount of stress on the liver. It also displayed a rapid absorption and turnover in one study(11), which may account for its ability to not cause unwanted [Side Effects](#). It's not bad for your blood pressure (13), and also has no adverse effects on the prostate and may even improve blood pressure(12)! Thus, [Andriol](#) is remarkably light on all [Side Effects](#), especially those related to liver toxicity and estrogenic sides.

#### [Andriol](#) for Women

In this study, done with women, it even displayed no ability to lower LH and FSH (Leutenizing Hormone and Follicle Stimulating Hormone, respectively), which are the hormones that tell your body to make more testosterone (11). I doubt [Andriol](#) could be properly regarded as liver toxic or too damaging to your HPTA (Hypothalamus-Pituitary-Testicular-Axis, the thing that governs your body's production of testosterone, among other things). at any kind of reasonable (or even excessive) dose. Actually, one study noted no adverse reactions or effects at all with the use of [Andriol](#) (10). As for your lipid profile and cholesterol, it has even been shown to have beneficial effects on them (14)!

So, putting some [testosterone undecanoate](#) in Gel Caps is what the scientists at Organon have done with their [Andriol](#) product, and it all looks good so far, right? The active steroid totally bypasses your liver and hence doesn't get damaged by or damage your liver, and gets a bunch of Testosterone into your body. Great! But what happens next? Well, after the lymphatic system has brought the [testosterone undecanoate](#) into circulation in your body, the undecanoate ester begins to be removed. This would leave you with (roughly) 25mgs of testosterone in your

blood stream, as the decanoate ester takes up a lot of "space" and the cap only contains a total of 40mgs of [testosterone undecanoate](#) (roughly 15mgs of which are ester). The end results from [Andriol](#) would be very similar to the end result of injecting almost any form of testosterone (4), once your body removes the ester. But remember, you ´d never inject 25mgs of [Testosterone Suspension](#) and call it a day, but that ´s exactly what you are doing when you take only one [Andriol](#) cap.

So now you have 25mgs of testosterone floating around in your body. That ´s not much, so if you ´re realistically considering using this product, you ´ll need to take quite a few caps of this it. And there ´s one of the first problems we encounter with this drug. You see, the method of administration of this drug provides us with a nice liver-safe product, but this stuff will peak your testosterone levels within around 2 hours after administration, and will only remain (at least slightly) elevated for 10 or so hours(1). Ideally, you ´d be taking a capsule every 2 hours, which is inconvenient to say the least. Let ´s be generous and say you can simply take one every 4 hours. Problem solved? Not really, because we ´re going to need to take at least 2 caps with each dose if we want to see any sort of anabolic effect, and if we ´re taking it every 4 hours (assuming we ´re awake for 16hrs every day), then we ´ll be taking around 8 caps per day. Now we ´ve shifted the problem away from the effort needed to take an effective dose to being a problem with economics.

### Cost to Buy [Andriol](#)

The problem with type of dose is going to be cost to buy [Andriol](#). [Andriol](#) is pretty expensive to be taking in the amount of 8 caps per day, and I have never seen it made by anyone except for Organon& which means we won ´t find it on any UnderGround Labs product lists. And that means we need to pay whatever price Organon is asking...and they are asking a lot. You can easily run a cycle with several very anabolic compounds for the price of a cycle of just [Andriol](#).

So that ´s our major obstacle, the expense of taking [Andriol](#) in what would be an effective dose is prohibitive to most people. One study noted that [Andriol](#) therapy, when compared with traditional Testosterone injections is roughly 7-8x more expensive (5).

### [Andriol Side Effects](#)

Cost notwithstanding, lets see what kind of [Andriol Side Effects](#) we can expect (besides the catabolic effect it will have on your wallet). Although it has a reputation for being very mild, you ´ll still see some results from [Andriol](#). One study using a very low dose on adolescent boys still showed a reasonable gain in Fat Free Mass(3) even though the boys were not training. And in another study focusing on the elderly, it improved their quality of life considerably (as androgens often do) (6), and also had beneficial effects on erectile dysfunction (7) (again, this is typical of androgens). This is certainly promising, but in a world where first time-steroid users expect upwards of 20lbs per cycle, I would suspect many will be disappointed with the 5lbs or so a cycle of [Andriol](#) will produce. Granted, that ´s a conservative estimate, but I can ´t really be confident predicting much more muscle is to be expected from [Andriol](#). Taking a large amount of [Andriol](#) is actually pretty safe (except for your bank account), and there was even a 3 month study done in Korea, where a pretty small dose of [Andriol](#) ( 160 mg daily for 3 weeks then half that dose for the remainder of the study) resulted in a very nice rise in testosterone. Serum total testosterone increased from 2.13 +/- 1.20 ng/ml at baseline to 6.04 +/- 3.08 ng/ml (p = 0.005) after 12 weeks. In addition, free testosterone was (barely) significantly changed from 8.60 +/- 2.25 pg/ml to 11.40 +/- 3.81 pg/ml (p = 0.13) (10). However, there were no significant changes in liver function tests, red blood cell count or lipid profiles, nor were there any significant adverse reactions that would have led to the cessation of the administration of oral testosterone. So the scientists at Organon have succeeded in making a nice, safe, moderately effective orally available treatment for low androgen levels. But can we (athletes and bodybuilders) use it also?

Truthfully, I can ´t be confident predicting more than a 5lbs gain with the use of [Andriol](#), because this product has a very odd property, and that is the widely varying effects it has on test subjects. In one study I read, four test subjects were each given [Andriol](#), and one had a huge surge in testosterone levels going up to 60.1nmol/L and the other only had a 11.5nmol/L level(5)! The remaining 2 test subjects fell in between those levels. I am speculating that the differences experienced by the test subjects were primarily due to the variances inherent in

the lymphatic system. But to make matters even more inconsistent, there is no evidence that those variances wouldn't occur within the same person taking [Andriol](#) (i.e. you get a huge surge in testosterone one day, and a very minor one the next day). This may be due to variability associated with whether this stuff is taken with food or not. Since it operates via association with your small intestine and lymphatic pathways, taking it with food greatly enhances its bioavailability (9), and this may be a case of "problem solved" but I'm hesitant to close the books on [Andriol](#)'s absorption problems so quickly, for now, we'll just say you are spending your money much more wisely if you take your [Andriol](#) with meals.

Despite all of its problems, if I had the money to run 10-15 caps of [Andriol](#)/day, and if I were looking for a stand-alone oral compound to safely run for a full cycle (of perhaps 12 weeks), then I have to admit, [Andriol](#) would be my #1 choice.

[testosterone undecanoate](#) and may offer an alternative for androgen treatment in women.

#### Testosterone + Undecanoate ester

[androsta-4-en-3-one,17b-ol]

Molecular weight of base: 288.429

Molecular weight of ester: 186.2936

Formula: C<sub>19</sub> H<sub>28</sub> O<sub>2</sub>

Melting Point: 155

Manufacturer: Organon

Effective dose: 600mgs

Active Life: less than 8-12 hours

Detection Time: 4-5 weeks

Anabolic/Androgenic Ratio (Range): 100:100

