

# Advancer Boost Cardiovascular Supercharger

Developed in [YE 41](#) by [Advancer Enterprises' Advanced Medical Division](#), The Advancer Boost Cardiovascular Supercharger is a potent bio-synthetic 'supercharger' drug, along with an optional internal synthetic organ that produces it on demand. Boost functions in the body similarly to how nitrous oxide works in internal combustion engines, except on a cellular level; it makes the user stronger and faster when working, but using it too long can lead to overheating and burning out. Boost is sold in single dosage injectors, or a user can opt to have an organ injected.

## How Boost Works

Boost is, as said earlier, a biological equivalent to a supercharger or oxidizer. This isn't simple analogy: Boost is a designer synthetic hormone that functions as a biological oxidizer that, effectively, supercharges muscular and cardiovascular function by rapidly accelerating the rate and intensity of certain key chemical reactions. Built from the same chemicals that can be found in a human body, Boost is technically non-toxic and safe to inject without any adverse side effects, provided that one does not take too much of it and overdose.

A single dosage of Boost will have an effect lasting for 99.9 seconds, after which the dosage will have been fully processed by the body and broken down into component parts. Taking more than a single dosage of Boost at a time, or chaining multiple doses before the effect wears off and the body has a chance to cool, presents the very likely opportunity of causing the body to overheat to dangerously lethal levels. The rough cooldown time is three minutes for an average person.

To prevent the Boost from oxidizing as soon as it hits the bloodstream, the chemical in its single dosage form comes prepacked in a saline solution, with the Boost itself contained within [Delivery Nanites](#) that are programmed to deliver the Boost precisely where it needs to go.

Boost so far only works on the more human of the human-derived species in the sector: only [Nepleslians](#); [Humans](#); and [Type III Freespacers](#) can use it with no unforeseen side effects. The descendants of the [Saal](#) and [ID-SOL](#) are physiologically and genetically close enough for it to function, but minute biological differences mean that effectively 50% of Saali descendants will may have allergic reactions of some kind or find that BOOST does not work on them, while those with the Super-Y Chromosome have a roughly 50% chance to be unable to properly utilize BOOST and simply flush it out of their systems. Other species' immune systems prevent it from working, or their genetic differences from baseline humanity make it impossible for it to work.

## Physical Effects

Because it is a direct-acting, limited duration drug, Boost has a number of direct effects and side effects.

Positive

- For 99.9 seconds, the user will see the following physical improvements:
  - Vastly increased cardiovascular and muscular activity. This triples the user's physical strength, speed, and twitch reaction time.
- Non-toxic, created from biosynthetic compounds that are harmless within the body
- Fast-acting, Boost goes to work within a second of being injected or of the synthetic gland being triggered.
- Not as addictive as other performance-enhancing drugs.

### Negative

- Overdosing can lead to the body overheating, with various inherently negative side effects such as
  - Brain Damage, leading to permanent neurological side effects and death
  - Permanent damage to the Muscular and Cardiovascular systems
  - Melting, then ignition of the body's fat reserves.
- Boost is not safe to use with other biochemistry changing performance enhancers. The change to the body's chemistry can not be predicted and could lead to rapid overheating, overdose, or rapid muscular degradation or disintegration.

## Synthetic Boost Gland

The Synthetic Boost Gland is an upgrade option intended for those who want the benefits of Boost but without having to carry around individual doses of it. Essentially another application of the same nanite hive used by implanted [Homeostatic Nanomachines](#), the Synthetic Boost gland has two main functions: the production of Boost within itself, and releasing a dose of Boost when commanded to.

The Synthetic Boost Gland is a specialized artificial organ, constructed using a mixture of tissues grown using the recipient's own genome and synthetic parts. Once implanted through a simple inpatient procedure onto the patient's left aorta and connected to their cardiovascular system, the SBG will go to work, synthesizing Boost and storing it internally. When commanded too by a simple mental thought by the patient, the gland will release a dosage of Boost into the body; it takes five-seven days, depending on the health and diet of the host body, to regenerate a dosage of Boost; the Synthetic Boost Gland can hold up to four doses of Boost at a time.

The Synthetic Boost Gland is powered by cellular respiration, and like other Advancer implants of this type, increases the required caloric intake of the host by 5%.

### Implantation

Implantation of the Synthetic Boost Gland is achieved through a simple in-patient procedure. The patient is sedated first before their body is opened up. With the aid of [Surgical Nanites](#), the Synthetic Boost Gland is grafted onto the recipient's left aorta and linked directly into their cardiovascular system. The entire procedure takes roughly 2 hours, with four days of rest recommended afterward.

## Pricing

- Single Dosage, contained in a vial with the Boost impregnated [Delivery Nanites](#) suspended in a saline solution: 30 KS
- Synthetic Boost Gland Implantation, lasts for a lifetime: 2000 KS

## OOOC Notes

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