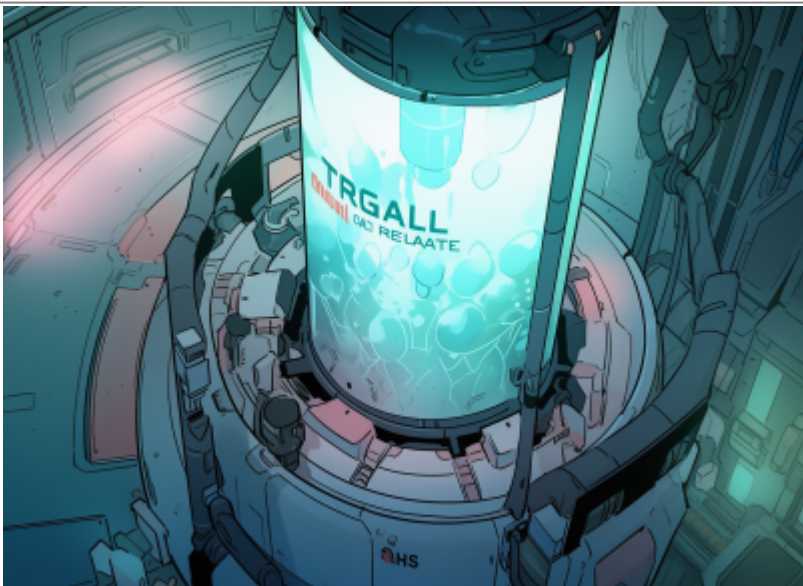


# TheraGel (Suaryoradone-2)

Created as an alternative to the no longer produced [MedicaGel](#), TheraGel incorporates a number of salvaged technologies with [AquaGenesis Fluid](#) serving as the foundation of the gel. It was first introduced in [YE 45](#) to the public.



Year Created:	<a href="#">YE 45</a>
Faction:	<a href="#">Nepleslian Reds</a>
Designer:	<a href="#">Athena Foundation</a> , <a href="#">Advancer Enterprises</a>
Manufacturer:	<a href="#">Nepleslian Research and Manufacturing</a> , <a href="#">Advancer Enterprises</a>
Nomenclature:	NRM-U5-1A
Production:	Mass Production
Price:	1,500KS per liter

## Species Compatibility

TheraGel is primarily oriented towards the [Human](#) species, but human derived and xeno species can make use of TheraGel. Studies have shown that [Freespacers](#), [Helashios](#), [ID-SOLs](#), and even [Kuvexians](#) will experience an accelerated rate of healing that exceeds baseline humans that make use of TheraGel. Civilian NH-series lifeforms such as the [NH-22C Yamataian](#) and [Minkan](#) are expected to experience even greater rates of healing compared to the previous groups due to their tailored biochemistry and structure of their biosynthetic bodies.

Sadly TheraGel will not be good news for all species within the [Kikyo Sector](#). Military NH-series lifeforms such as the [Nekovalkyrja](#) have no response from TheraGel due to their complete metabolism of the included medicine despite their biochemistry that has a high affinity with nanotechnology. [Hedoro](#) are largely immune to TheraGel due to their bodies' lack of cells for the nanites to interface with. And TheraGel integrated nanites make it deadly for [Senti](#) and even [Rixxikor](#).

## Description

TeraGel was born out of a collaboration between the Athena Foundation and Advancer Enterprises, who sought to adapt the versatile AquaGenesis Fluid into a more practical, medical application. The result is a medical-grade, nanite-infused gel that serves as a multi-purpose healing agent.

The gel is thick, clear, and slightly sticky, designed for rapid wound healing, tissue regeneration, and even synthetic repair. When applied, TeraGel forms a protective barrier over wounds, sealing them from external contaminants. Its unique composition allows it to adapt to the needs of the patient, whether organic or synthetic, making it a universal medical solution.

## Composition

The foundational element of TeraGel is AquaGenesis Fluid, converted into a gelatinous state for easier application. This base is then augmented with various other components, each serving a specific purpose in the healing process.

### Oxygen Carriers

In order to increase the oxygen needed for healing, [Oxydexanil](#) is included with TeraGel for delivery nanites. Perfluorocarbons (PFCs) from the AquaGenesis Fluid base are also found within TeraGel to facilitate targeted oxygen delivery to cells.

Initially loaded during the manufacturing process, become active when a [osmotic-like patches](#) containing oxides is placed on top of the solid TeraGel. Nanites within the patch (when the seal is removed) extract the oxygen from the oxides and leave their remaining inert elements within the patch.

### Nutrient Particles


TeraGel is enriched with a blend of essential nutrients like amino acids, carbohydrates, peptides, lipids, vitamins, and minerals. These nutrients serve as the raw materials that the nanites use to reconstruct damaged tissues, effectively accelerating the healing process.

### Growth Factors

The gel contains Advancer proliferatum proteins, which are instrumental in cellular development. These growth factors stimulate cell division and differentiation, aiding in the rapid regeneration of tissues and organs.

## Nanites

Incorporating [delivery nanites](#) and repair nanites, TheraGel achieves most of its healing capabilities through these nanoscale robots. They are programmed for targeted delivery of nutrients and medicines.

Nanites within TheraGel activate in the presence of glucose found within the body fluids of the patient and use Advancer cellular respiration to provide power for the nanites. An initial supply of  **ATP** “supply depots” are provided in the Gel before these depots start using glucose to produce new ATP.

## Sedatives and Painkillers

TheraGel contains microdoses of [gailicaine](#) sedatives that are generally metabolized quickly in small applications. However, in larger doses required for critical injuries, gailicaine can induce a temporary comatose state (24 hours per dose). This serves to conserve the patient's internal resources for healing and prevents further self-inflicted damage.

For pain-relief, nitrous oxide used to disperse and slow release delivery nanites containing [baipiline](#) provide pain relief to the patient. The delivery nanites ensure the amount of baipiline released does not exceed the daily limit for the medication. It also functions to limit the addictiveness of the medication if prolong use occurs.

## Applications and Usage

TheraGel is versatile in its application methods. It can be squeezed directly from tubes, applied via osmotic-like patches, or injected intravenously. It is also compatible with combat hardsuits (found mostly as injectors), allowing for automated self-healing in the field.

Specialized medical training is recommended for applications beyond 10ml found in standard self-care kits. TheraGel hardens once exposed oxygen, but remains a gel in the presence of water. In order to remove from the patient, a specific ultrasonic frequency turns TheraGel into a liquid.

## Wound Healing

TheraGel excels in accelerating the natural healing process. Its nanites work in tandem with the body's own repair mechanisms, effectively reducing the healing time for various types of wounds.

## Tissue Regeneration

While TheraGel can facilitate the regrowth of damaged organs, it is not capable of regenerating entire lost limbs. The nanites and growth factors work to stimulate the body's own regenerative capabilities, but they are not a substitute for more advanced medical procedures for limb replacement or extensive

damage to the individual.

## **Toxin Neutralization/Anti-microbe**

The gel contains specialized nanites capable of neutralizing a wide array of toxins, poisons, and diseases. These nanites are programmed to identify and break down harmful substances organisms at a molecular level. While these nanites can filter the blood of toxins as it is pumped past the Theragel, it can also only do so for free roaming microbes that have not infected a cell yet.

## **Emergency Stabilization**

In critical conditions, large doses of TheraGel can induce a temporary comatose state to preserve vital organs. This is particularly useful in battlefield conditions where immediate advanced medical care may not be available.

## **Limitations**

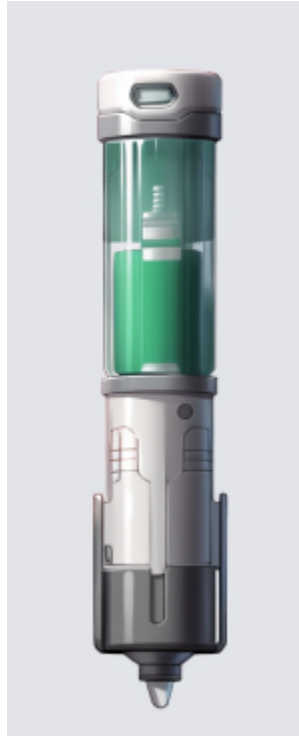
While TheraGel is a powerful healing agent, it has its limitations. It cannot compensate for massive blood loss or treat pre-existing infections ravaging cells. Additionally, while it can aid in the repair of neurological damage by rebuilding synapses, it cannot restore lost neurological energy.

## **Products**

TheraGel is available in various formats to suit different medical needs, ranging from minor injuries to critical conditions. Each product is designed for ease of use but can be more effectively administered with a simple set of instructions.

- Clean area around the wound before applying gel.
- Dispense gel by pushing on the syringe plunger or button on the container.
- Rub gel onto (or into if deep) wound for 10 seconds until it hardens.

## **Standard TheraGel Syringe**




A small needle-less syringe contains 10ml of TheraGel, sufficient for treating minor wounds like cuts, scrapes, and first-degree burns. It is a staple in basic first aid kits and is ideal for civilian usage due to its ease of use.

- Cost: 15 KS

## TheraGel Tube




A larger form of the standard syringe, the “medium” tube holds 50ml of TheraGel that is extracted with a push of a button. Using  nitrous oxide to push out the treatment and providing some pain relief, the

tube format is designed for more serious injuries such as deep cuts, second-degree burns, or minor fractures (when injected). It is commonly found in individual first aid kits and is suitable for field medics.

- Cost: 75 KS

## TheraGel Injector



For intravenous application or deep wound treatment, the TheraGel Injector format is a cylindrical container with a deployable nozzle. The nozzle is put over the open wound and nitrous oxide is used to apply the TheraGel into the wound and provide pain relief. The Injector container contains 100ml of TheraGel, making it ideal for emergency situations such as gunshot wounds, damaged organs, etc.

- Cost: 150 KS

## OOO Notes

[Demibear](#) created this article on 2023/10/01 05:44. All images generated with midjourney.com by demibear.

This article was approved by [\[\[members:andrew\]\]](#) on 2023/10/13.<sup>1)</sup>

Products & Items Database	
Product Categories	medical
Product Name	TheraGel
Nomenclature	NRM-U5-1A
Manufacturer	<a href="#">Advancer Enterprises</a>
Year Released	<a href="#">YE 45</a>

Products & Items Database	
Price (KS)	1.50 KS

1)

<https://stararmy.com/roleplay-forum/threads/advancer-enterprises-theragel.71003/#post-441722>

From:

<https://wiki.stararmy.com/> - **STAR ARMY**

Permanent link:

[https://wiki.stararmy.com/doku.php?id=corp:ryu\\_keiretsu:advancer\\_enterprises:biotech:theragel](https://wiki.stararmy.com/doku.php?id=corp:ryu_keiretsu:advancer_enterprises:biotech:theragel)Last update: **2023/12/21 05:24**