

Protogenesis Fluid

The Protogenesis Fluid is a proprietary, nutrient-rich biogenic fluid and nanite medium used in the [Genesis Bioforge](#) to facilitate the rapid growth and development of clones and Artificial Nepleslians. It is primarily used [Nepleslian Reds Cloning](#) purposes, though it is sold to privileged customers for various other uses.

Protogenesis Fluid	
»Optional Image«	
Year Created:	YE 36
Designer:	Nepleslian Research and Manufacturing
Manufacturer:	Nepleslian Research and Manufacturing
Nomenclature:	NRM-U2-1A
Production:	Mass Production
Price:	1,000KS per liter

Description

The Protogenesis Fluid appears as a clear, viscous fluid slightly thicker than water. It is stored in sealed bio-safe containers of various sizes, typically ranging from 1 to 50 liters. The fluid has a faintly sweet, sterile scent and is formulated to be hypoallergenic to avoid any potential immune response from the developing clone. It is biodegradable and safe to handle, though care should be taken to maintain its sterility prior to use.

Function

The primary function of Protogenesis Fluid is to act as a growth medium for clones and Artificial Nepleslians within Genesis Bioforges. It is designed to be as close to natural amniotic fluid as possible, with several significant enhancements:

- **Nutrient Delivery:** The fluid contains all the necessary proteins, sugars, vitamins, and minerals required for rapid cell growth and development. These nutrients are easily absorbed by the developing clone.
- **Oxygenation:** The Protogenesis Fluid is heavily oxygenated, allowing the developing clone to extract the necessary oxygen for cellular respiration directly from the fluid. This bypasses the need for a functioning respiratory system during early development.
- **Waste Management:** The fluid also facilitates the removal of waste products from the clone's cells, acting as a medium for transporting waste to the Bioforge's waste management systems.
- **Nanite Integration:** The fluid acts as a medium for the nanites used in the clone's development, facilitating their movement and work.

Usage

In usage, the Protogenesis Fluid is introduced into the Genesis Bioforge's growth chamber, where it surrounds the developing clone. The fluid's nutrients and oxygen are consumed by the clone's cells, while waste products are diffused back into the fluid and removed by the Bioforge's filtration system.

Due to its vital role in the cloning process, the Fluid requires regular monitoring and replenishment to maintain its nutrient and oxygen levels and ensure the optimal growth environment for the clone. Nanites within the fluid (distributed from the bioforge) assist in this task, monitoring the Fluid's composition and signalling when replenishment or replacement is necessary.

As the clone matures, the fluid is gradually replaced with a less nutrient-dense version, preparing the clone for the transition to independent life. Once the clone is ready to be awakened, the Bioforge purges the remaining Fluid, leaving the clone in an empty chamber.

While primarily used by the Reds, the Protogenesis Fluid is also sold to a select number of customers outside the faction. However, given its specialized nature, it is typically used by organizations or individuals with significant experience in cloning or bioengineering.

OOC Notes

Demibear created this article on 2023/07/27 05:17.

Approval Thread:
<https://stararmy.com/roleplay-forum/threads/nepleslian-reds-cloning-article.70694/#post-439391>

Products & Items Database	
Product Categories	medical
Product Name	Protogenesis Fluid
Nomenclature	NRM-U2-1A
Manufacturer	Nepleslian Research and Manufacturing
Year Released	YE 36
Price (KS)	1.00 KS

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