

AquaGenesis Fluid (Suaryoradone)

AquaGenesis Fluid (Suaryoradone) is a carefully engineered solution designed to replicate and enhance the natural environment of a growing fetus in the womb. Based on [Protogenesis Fluid](#), its application ranges from standard genetic cloning to highly specialized bio-engineering projects, providing an ideal environment for cellular growth and differentiation. It entered the public market in [YE 45](#).

AquaGenesis Fluid	
»Optional Image«	
Year Created:	YE 42
Faction:	Nepleslian Reds
Designer:	Athena Foundation
Manufacturer:	Nepleslian Research and Manufacturing , Advancer Enterprises
Nomenclature:	NRM-U4-1A
Production:	Mass Production
Price:	1,000KS per liter

Description

The AquaGenesis Fluid is a slightly viscous liquid with an inherent transparency, that is based on earlier forms of artificial amniotic fluids. The fluid fosters a harmonious growth environment, composed of a meticulous balance of oxygen carriers, nutrients, growth factors, and waste removal agents, all under the careful guidance of nanite technology. The fluid is continually circulated and monitored within the cloning chamber, ensuring the clone develops under optimal conditions.

AquaGenesis Fluid typically is distributed as 2 liter containers. But smaller sizes are available depending on the usage.

Oxygen Carriers

Perfluorocarbons (PFCs) are the prime oxygen carriers in the AquaGenesis Fluid that allow liquid breathing. Their ability to dissolve oxygen simplifies the delivery process by eliminating the need for intricate release mechanisms. Due to the large volume of the fluid being PFCs, liquid breathing is achievable by the clone.

During critical early development stages or emergencies, nanites are programmed to capture and release PFCs in a targeted manner. This increases the oxygen supply efficiency to the clone's rapidly proliferating cells, mirroring a process akin to a natural womb's response during fetal distress.

Nutrients

The AquaGenesis Fluid is infused with a cocktail of essential nutrients required for cellular growth and differentiation. These include amino acids, the building blocks of proteins; carbohydrates, the primary energy source; lipids, crucial for cell membrane formation; and an assortment of vitamins and minerals necessary for various biochemical reactions.

The body of the clone can passively absorb these nutrients thanks to the nanites within the fluid. The required nutrients are also supplied directly to the developing clone via a backup bio-engineered umbilical cord, mimicking the maternal-fetal nutrient supply.

Growth Factors

A key aspect of the AquaGenesis Fluid's potency lies in its complement of growth factors known as proliferatum. These are proteins that regulate cell division and differentiation, instrumental for the rapid development of the clone's tissues and organs.

The growth factors, much like nutrients, are delivered directly to the clone and also are released into the fluid to create an environment that fosters accelerated cellular development.

Nanite Suspension

The inclusion of nanites – nanoscale robots – enhances the efficacy of the AquaGenesis Fluid. These nanites have the ability to seamlessly enter and exit the clone's body, functioning in harmony with the clone's biological processes. They augment growth, aid in the formation of neural connections during sleep training, and can perform specialized tasks such as targeted oxygen delivery or waste removal.

Waste Removal Agents

Maintaining a clean and healthy environment is vital for clone development. The fluid includes specialized molecules called puritol that bind to the metabolic waste produced by the clone. Dedicated nanites tied to waste management bind with these molecules when they give off a chemical signal when they absorb waste. Both are treated when the nanite delivers the molecule to waste disposal ports.

Usage

AquaGenesis Fluid primary purpose is the medium which clones and artificial Neplesians are developed in. But it is not the only usage for the fluid. [Advancer Enterprises](#) has recognized the potential of artificial amniotic fluid in other applications.

With a different set of nanites, the fluid can be adapted as a medium to repair wounds (and even reconstruct portions of a body) in a similar (though vastly inferior) manner [hemosynthetic fluid](#) used by the Yamataians. It can also be added to pregnant individuals (removing growth factors) if they are not producing enough natural amniotic fluid.

The fluid has found a use with in vitro studies where it is used for cellular growth and differentiation, tissue engineering, and developmental biology. It is also a very useful tool in education where realism is desired with students.

The fluid can also be used in the growth of tissue that can serve as the replacement of missing limbs and organ transplants. Finally the fluid can be used for temporary growth of fetuses before being transplanted to mothers in the form of reproduction assistance.

OOC Notes

Demibear created this article on 2023/07/07 00:43.

This article was approved by [[members:andrew] on 2023/10/13.¹⁾

Products & Items Database	
Product Categories	medical
Product Name	AquaGenesis Fluid
Nomenclature	NRM-U4-1A
Manufacturer	Advancer Enterprises
Year Released	YE 45
Price (KS)	1.00 KS

¹⁾

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

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