

Safety Assured with Cytotoxicity Tests by IOBA*

Perfluorocarbon Liquids

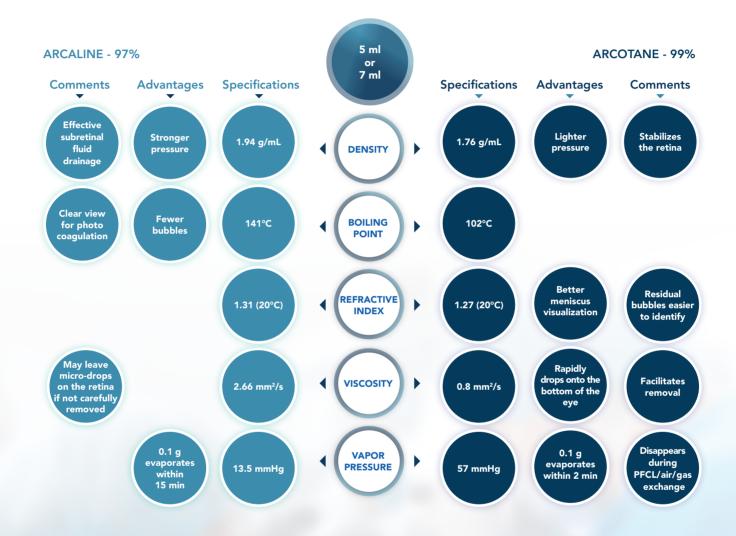
ARCOTANE C_8F_{18} ARCALINE $C_{10}F_{18}$



*Instituto Universitario de Oftalmobiología Aplicada.

ARCOTANE and ARCALINE Introduction

The highly purified perfluorocarbon liquids (PFCLs) have several indications in vitreo-retinal surgery, including drainage of subretinal fluids to favor re-adhesion of detached retina to the underlining tissue. Limiting the presence of free fluoride anions and any other toxic compound like fluoro-acid, fluoro-alcohol is key to ensure perfluorocarbon liquids are safe for use¹.



ARCALINE AND ARCOTANE IN PROCESS CONTROLS

All the controls, especially gas chromatography and nuclear magnetic resonance, show that ARCALINE and ARCOTANE specifications comply with up-to-date standards.*

FDA approved products specification in US*		ARCALINE / ARCOTANE specification
FLUORIDE (F-)	≤ 3 ppm**	≤ 2 ppm
NON VOLATILE RESIDUES	≤ 20 ppm	≤ 20 ppm
(C-H) Link IR	≤ 1	≤ 0,015

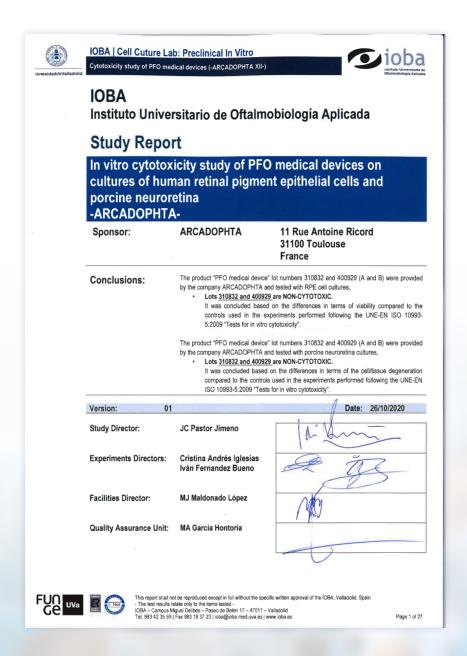
¹ Ophthalmologica Review: Retinal Toxicity of Medical Devices Used during Vitreoretinal Surgery: A Critical Overview acute retinal damage after using a toxic perfluorocarbon for vitreoretinal surgery- retina 37:1140-1151, 2017.

^{*} As per P950018 S019 Perfluoron PMA reported in the FDA website

^{**} Part Per Million, commonly used to express chemicals concentration.

ARCOTANE and ARCALINE Unique Biological Safety Guarantee

Each batch is tested for cytotoxicity on human retinal cells (ARPE*** cells) and on porcine-ganglionar cells.



IOBA Certificate

ARCOTANE and ARCALINE Advantages

- No reports of cytotoxicity² have been communicated to the manufacturer Arcadophta over 15 years of production and commercialization
- Over 600.000 units distributed in more than 70 countries
- Pharmaceutical environment production
- ISO 13485/2016 certified company
- European legal manufacturer

2 ARCAD_PMS-PMCF_01 Version 0 of the 27/04/2020* As per P950018 S019 Perfluoron PMA reported in the FDA website
***Adult Retinal Pigment Epithelium cells.



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ARCOTANE and ARCALINE PFCL Instructions For Use

- Use a long blunt cannula to inject PFCL close to the optic disc and create a single bubble
- Always inject PFCL smoothly into the same bubble, and avoid jet-stream to prevent damaging the retina
- Let the bubble expand until you reach the bottom part of the tear; Stop the injection to avoid any PFCL leakage into the subretinal space
- Apply laser endophotocoagulation through the PFCL
- Thoroughly remove PFCL passively before introducing gas or silicone oil tamponade



Safety First For Our Product Line



ARCIOLANE
Fractionated and Purified
Silicone Oil



ARCEOLE
Ready-to-Use Set
of Ophthalmic Gas



MONOBLUE
Ultra-Purified
Trypan blue solution



OP'COVERCorneal Protection

FOR COMPLETE PRODUCT INSTRUCTIONS, PLEASE REFER TO THE IFU SUPPLIED WITH THE PRODUCT

