

cis/trans-Perfluorodecalin (abb.PFD)



Purity	99%
CAS Number	306-94-5
Molecular Formula	C10F18
Molecular Weight	462.08

1. By injecting calcium phosphate/PFD cement dispersion into the inside and outside of artificial bone incorporating bone marrow cells made by 3D printer, bone marrow cells and new bone growth are observed. Presumed to be a scaffolding for oxygen supply and bone cell proliferation until blood is sufficiently supplied.

Quantitative analysis of cell morphology (rabbit, 21 days)

	Components	Proliferation degree (outside: new bone coverage)	Proliferation degree (inside: soft tissue volume)
a.	artificial bone	13%	10%
b.	a. + bone marrow cells	30%	60%
c.	b. + PFD	60%	80%

Application

2. Effect of purity on vitreous PFD replacement of the eyeball; 95–98% high-purity PFD with residual hydrogen, double bonds, and fluoride ions removed showed fibrin exudation 5 days after replacement compared with 70–95% pure PFD. did not admit

3. PFD emulsion ointment for burns. Promotes healing of burnt skin (15%).

4. By combining PFD with the short-time laser multi-pass irradiation method for tattooing, the treatment time is reduced to 1/10 or less.

1.European Cells and Materials, Vol.25, 2013, p22–36

2.American J. of Ophthalmology, 116, 1993, p565–570

3.Artifcl. Cells & Blood Substnt., Biotech., Vol.22, 1994, Issue 4, p1331–1336

4.Lasers in Surgery and Medicine, 45, 2013, p76–80

“We also could supply high purit cis- and trans-Perfluorodecalin ”

Properties:

Appearance	Liquid
Boiling point, °C	141-142
Melting point, °C	2-4

Capacity:	200kg
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Packing: -

UN, PG: -
