

FluoSurf™ dilution protocol

PROTOCOL

1. Weigh the calculated mass of FluoSurf™ in an amber vial.
2. Add the calculated mass of oil to the vial.
3. Stir on a roller shaker at 30 rpm overnight at room temperature (20–25°C).

CALCULATION OF THE MASSES TO BE WEIGHED

The mass of FluoSurf™ to be weighed depends on the FluoSurf™ mass percentage of the solution and the fluorinated oil used for dilution (Fluo-Oil™ 7500, Fluo-Oil™ 40, Fluo-Oil™ 135 or Fluo-Oil™ 200). The table below indicates the masses of FluoSurf™ and fluorinated oil to be weighed for preparation from a 10 mL solution.

FluoSurf™ mass percentage (w/w%)	Fluo-Oil™ 7500		Fluo-Oil™ 40		Fluo-Oil™ 135		Fluo-Oil™ 200	
	FluoSurf™ weight (g)	Oil weight (g)	FluoSurf™ weight (g)	Oil weight (g)	FluoSurf™ weight (g)	Oil weight (g)	FluoSurf™ weight (g)	Oil weight (g)
1	0.1626	16.1	0.1869	18.5	0.1717	17	0.1808	17.9
2	0.3286	16.1	0.3776	18.5	0.3469	17	0.3653	17.9
3	0.4979	16.1	0.5722	18.5	0.5258	17	0.5536	17.9
4	0.6708	16.1	0.7708	18.5	0.7083	17	0.7458	17.9
5	0.8474	16.1	0.9737	18.5	0.8947	17	0.9421	17.9

FORMULAS

Oil weight = Oil volume x Oil density

FluoSurf™ weight = FluoSurf™ mass percentage x Oil weight / (100 – FluoSurf™ mass percentage)

OIL DENSITIES

Oil	Density
Fluo-Oil™ 7500	1.61
Fluo-Oil™ 40	1.85
Fluo-Oil™ 135	1.70
Fluo-Oil™ 200	1.79

Note : The masses indicated are valid for all Fluosurf™ products (FluoSurf™-C, FluoSurf™-O and FluoSurf™-S).

STORAGE

FluoSurf™ neat can be stored at room temperature for 4 years.

After dilution in a fluorinated oil, FluoSurf™ should be stored at room temperature protected from light for 1 year. Storage at 4°C is not recommended to avoid surfactant precipitation.

