



Shelley Medical Imaging Technologies offers Blood Mimicking Fluids that are suitable for evaluating the performance of diagnostic medical imaging scanners. Our blood mimicking fluids provide the complex properties of blood without the problems associated with handling real blood.

## *Doppler Ultrasound (BMF-US)*

Shelley offers a blood mimicking fluid that is suitable for the evaluation of Doppler ultrasound techniques.

Ideal for Doppler flow measurements.

## *Ultrasound Properties*

Speed of sound:	$1548 \pm 5 \text{ ms}^{-1}$
Density of fluid:	$1037 \pm 2 \text{ kg m}^{-3}$
Scattering particle diameter:	5 $\mu\text{m}$
Scattering particle density:	$1.03 \text{ g cm}^{-3}$
Particle concentration:	1.82%
Acoustic attenuation:	$0.05 \pm 0.01 \text{ (dB cm}^{-1} \text{ MHz)}$
Backscatter:	Orgasol (nylon)
Viscosity:	$4.1 \pm 0.1 \text{ (mPa s)}$

## *MRI (BMF-MR)*

Shelley offers a blood mimicking fluid that is suitable for the evaluation of magnetic resonance imaging techniques.

Ideal for angiographic techniques and quantitative flow measurements.

## *MRI Properties*

T1:	850 ms @ 1.5 Tesla
T2:	170 ms @ 1.5 Tesla

Blood Mimicking Fluids for both Doppler ultrasound and magnetic resonance imaging applications are available in 3 litre containers.



SHELLEY MEDICAL IMAGING TECHNOLOGIES

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