

4.3 Muscle Tissue Simulant

The composition of the muscle tissue simulating liquid for 835MHz is

- 56.0% De-Ionized Water
- 41.76% Sugar
- 1.21% HEC
- 0.76% Salt
- 0.27% Preservative

<i>f</i> [MHz]	Description	Dielectric Parameters		Temp [°C]
		ϵ_r	σ [S/m]	
835	Measured Value	57.0	0.95	22
	Recommended Value	56.1	0.95	22

Recommended values are adopted from FCC Tissue Dielectric Properties web page at [http:// www.fcc.gov/fcc-bin/dielec.sh](http://www.fcc.gov/fcc-bin/dielec.sh)

4.4 Phantoms

Two phantoms, "Generic Twin Phantom", manufactured by SPEAG, were used during the measurements. One phantom was filled with 835 MHz head tissue-simulating liquid and the other with 835 MHz muscle tissue-simulating liquid.

The thickness of phantom shell is 2 mm except for the ear, where a 4 mm ear spacer provides a 6 mm spacing from the tissue boundary.

