

9.0 SIMULATED TISSUES

The 1800MHz brain and muscle mixture consists of Glycol-monobutyl, water, and salt. The fluid was prepared in accordance with standardized procedures, and measured for dielectric parameters (permittivity and conductivity).

INGREDIENT	MIXTURE (%)	
	Brain 1800MHz	Muscle 1800MHz
Water	54.88	69.91
Glycol Monobutyl	44.91	29.96
Salt	0.21	0.13

1800MHz Brain & Muscle Mixture

INGREDIENT	MIXTURE (%)
	1800MHz Brain (Validation)
Water	45.0
Sugar	53.9
Salt	0.0
HEC	0.1
Bactericide	1.0

1800MHz Brain (Validation) Mixture

10.0 TISSUE PARAMETERS

The dielectric parameters of the fluids were verified prior to the SAR evaluation using an 85070C Dielectric Probe Kit and an 8753E Network Analyzer. The dielectric parameters of the fluid are as follows:

Equivalent Tissue (1800MHz)	Dielectric Constant ϵ_r	Conductivity s (mho/m)	ρ (Kg/m ³)
Brain	40.5 $\pm$ 5%	1.35 $\pm$ 10%	1000
Muscle	54.6 $\pm$ 5%	1.39 $\pm$ 10%	1000
Brain (Validation)	41.2 $\pm$ 5%	1.68 $\pm$ 10%	1000