

PRODUCT DATASHEET

Mouse Heart Coils

Specifications

Volume coils

- homogeneous RF profile over the mouse head
- quadrature polarization, Tx/Rx
- inner diameters from 25 to 35 mm, other on demand

Surface coil arrays

- curved housing to be combined with mouse holder LHMXGS-00562
- fit into volume transmit coils with inner diameter of 72 mm or wider
- 2 receive channels, actively decoupled
- integrated low noise preamplifiers
- increased sensitivity, even from the deeper regions of the tissue, e.g. from the back wall of the myocardium
- adaptable to clinical and pre-clinical MR systems



No Medical Device! Caution – The use of the devices described above is limited to investigational use on laboratory animals or other tests that do not involve human subjects.

Mouse Heart Coils

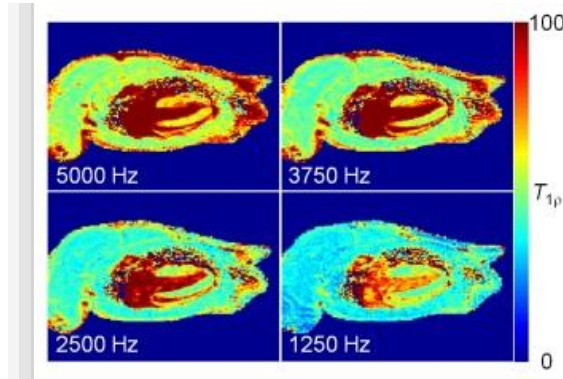


image courtesy of H-S N. Mustafa and T. Liimatainen, Department of Biotechnology and Molecular Medicine University of Eastern Finland

Quadrature volume coil for mouse heart at 9.4T

$T_{1\rho}$ maps demonstrating $T_{1\rho}$ dispersion by varying RF power of continuous wave pulse in normal mouse myocardium in vivo.

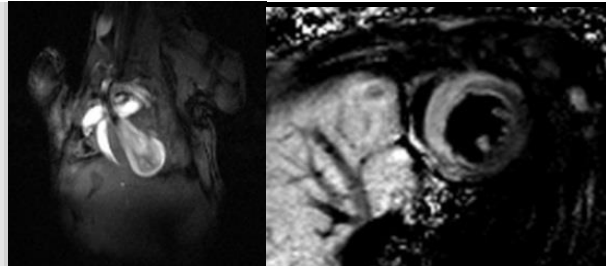


image courtesy of B: Delattre and J.-P. Vallée, Radiology department, Geneva University Hospital

2-channel surface array for mouse heart at 3 T

- a) Cardiac cine sequence for a mouse with a complete ligation of left coronary artery.
- b) PSIR of the heart of a mouse with an infarction.

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