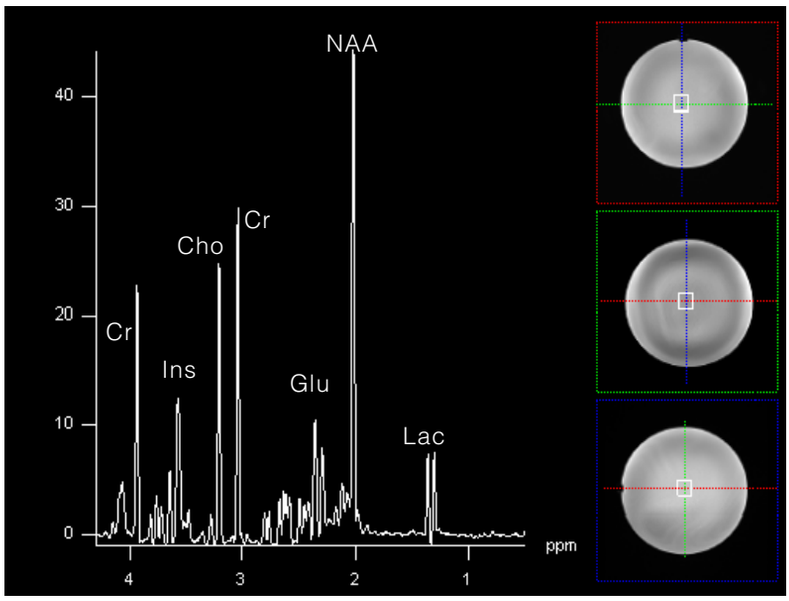
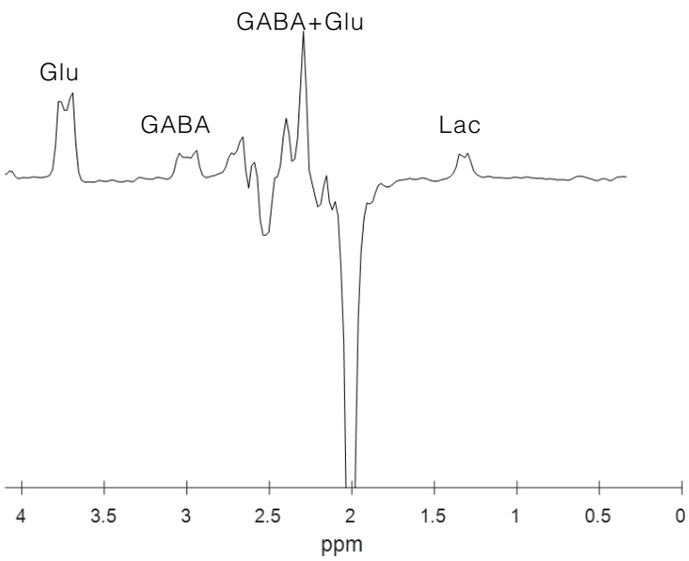
SPECTRE

Spectroscopy **Re**ference

GOLD STANDARD PHANTOMS



Single voxel spectra acquired at 3T, TE=30ms



Edited MEGA LASER difference spectra at 3T, TE=68ms

Monitor the reproducibility of MR spectroscopy acquisitions and analyses through routine scanning of the **SPECTRE** phantom.

The **SPECTRE** (**Spect**roscopy **Re**ference) phantom is designed for Quality Assurance measurements of Magnetic Resonance Spectroscopy (MRS). It contains a set of metabolites found within the brain at physiological concentrations and pH, all housed within a 180mm diameter HDPE sphere. Up to 30 **SPECTRE** phantoms can be made from the same batch, providing identical phantoms for use in multi-centre studies.

SPECTRE uses a set of metabolites typically used in MRS QA, with the addition of **GABA** (gamma-Aminobutyric acid) at 2mM to allow performance testing of J-editing sequences.

Metabolite	Concentration*
N-Acetyl-L-aspartic acid (NAA)	12.5 mM
Creatine (Cr)	10.0 mM
Choline Chloride (Cho)	3.0 mM
Myo-inositol (Ins)	7.5 mM
Glutamate (Glu)	12.5mM
Lactate (Lac)	5.0 mM
gamma-Aminobutyric acid (GABA)	2.0 mM

*Concentrations are nominal and are subject to supplier and process variations.

Contact **info@goldstandardphantoms.com** or visit **www.goldstandardphantoms.com/spectre** for more details.

Diameter	180mm OD
Contents	Water-based liquid with metabolites, pH buffer and non-toxic preservative.
pH (@ 20°C)	7.4
Materials	HDPE (shell) Nylon (Filling Plug) Nitrile (Plug Gasket)
Warranty	One year
Includes	Liquid crystal thermometer Protective foam lined box Stand

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