

## FACULTY OF SCIENCE

*Empowering Innovation in Scientific Research and Education*

### Metrology and Isotopic Fractionation Laboratory (LMFI-FS)

#### BBFO probe 400 MHz



#### Acceptable device age

Not specified, but if used, the probe should be refurbished and guaranteed.



#### Equipment Description

BBFO Probe to be used on a 400 MHz AVANCE II Bruker spectrometer for observation of nuclei between  $^{31}\text{P}$  and  $^{15}\text{N}$  (BBFO: for  $^{19}\text{F}$  as well)



[For more details](#)



#### Use (research, diagnosis, etc.)

Research and service provision



#### Estimated frequency of use

A probe is necessary for acquisition of NMR spectra. In a research project, NMR is used several times on a daily basis.



#### Possibility of sharing with other laboratories

NMR is a versatile tool used in various research fields and service sectors; Analysis and identification of chemical compounds, Synthesis of biologically active molecules, Pharmacology, Metabolomics, Isotopic analysis, Food analysis and authentication, and Identification of biomarkers for medical applications. Typically, in university research laboratories, an NMR spectrometer is generally shared between several research teams.



#### Cost Estimate : \$65,000

(based on the review: Liquid NMR probes, Analytical chemistry 79, no. 21 (2007): 7959-7963 and on the agent of Bruker in Lebanon)

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 Be sure to specify the name of the equipment

Contact us for any new or gently used lab equipment.  
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