

**BioPixS fNIRS phantom** is specifically designed for fNIRS device manufacturers, developers and end users to comply with the IEC 80601-2-71 standard. Developed by the working group 'IEC/TC 62/SC 62D/JWG5', which includes leading experts in functional Near-Infrared Spectroscopy, its purpose is to assess the performance of fNIRS devices within the framework of the standard and its future upgrades.

BioPixS fNIRS phantom is fabricated following the guidelines of Annex BB.3.3 of fNIRS standard. Specifically, with BioPixS fNIRS phantom you can implement test 201.12.1.101.5 (PATHLENGTH-DEPENDENT HAEMOGLOBIN CHANGE), 201.12.1.101.6 (signal stability), with addition of our 20 dB attenuator accessory you can implement 201.12.1.101.8 (Signal-to-noise ratio). The table below summarizes the tests that can be implemented with the BioPixS fNIRS phantom.

Test code (IEC 80601-2-71)	Performance	BioPixS fNIRS phantom	Optical loss	Geometry
<b>201.12.1.101.5</b>	Pathlength-dependent haemoglobin change	Yes	State A: > 40 dB, state B: 3 dB to 4 dB larger than in state A	Transmittance
<b>201.12.1.101.6</b>	Signal stability	Yes	>40 dB	Transmittance
<b>201.12.1.101.8</b>	Signal-to-noise ratio	Yes	State A: > 60 dB, state B: 3 dB to 4 dB larger than in state A. *Need 20 dB attenuator (sold separately)	Transmittance



**Lead time: 2-3 weeks**

For more customization arrange call with our engineers at [info@biopixstandards.com](mailto:info@biopixstandards.com)

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