

# MEDIX LAB



ACCREDITATION  
N° 2-5602  
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Laboratoire National  
Henri Becquerel

LNE-LNHB

**list**

## **The calibration certificate issued by MEDIX LAB:**

- Calibration coefficients for the required beam qualities and associated uncertainties
- Details of exposure parameters in the reference chamber and the calibrated detector

## **An infrastructure built within the walls of MEDITEST to meet the highest level technical challenges**

- Facilities compliant with standard NF 61267 with periodic monitoring of the HVL and field homogeneity measurements
- Weekly control of the stability of reference measurement channels
- Compliant measurement instruments calibrated annually, in connection with the international system of units
- High precision climate control  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$  and 50% RH



## **FOR MORE THAN 30 YEARS, MEDITEST HAS BEEN A PIONEER IN MEDICAL IMAGING QUALITY CONTROL**

MEDITEST was created in 1984. A specialist in nuclear imaging electronic equipment, MEDITEST has been a pioneer in equipping operators with hardware for mammogram equipment control since the early 2000s.

Given increasingly stringent regulations, it has become an expert in technology dedicated to quality control for medical imaging platforms.

## **IN 2007, BRUNO TORRÈS, A MEDICAL IMAGING PROFESSIONAL, TOOK OVER MEDITEST**

In 2007, Bruno TORRÈS took over the company to give it new life. The former manager of radiation therapy and nuclear medicine at a large international medical imaging manufacturer, he was at the source of knowledge and practice by the French DEXA market in the late eighties.

### **The security of experience**

MEDITEST capitalizes on nearly 30 years of experience in technologies dedicated to quality control of technical platforms for medical imaging, nuclear medicine, radiation therapy and research.

### **ENHANCED EXPERTISE**

In 2012, Bruno TORRÈS set up MEDITEST in Buc (Yvelines), in the heart of the Saclay-Orsay high tech cluster, which brings together numerous universities, research centers and industries.

MEDITEST thereby confirms its geographical proximity with the Commissariat à l'Énergie Atomique and the Laboratoire National Henri Becquerel, with whom close relationships have developed, leading to improved expertise.

### **EVEN MORE COMPETITIVE**

Globally renowned manufacturers, such as RADCAL or CIRS, have chosen MEDITEST as the exclusive technical ambassador for their companies on French soil.

## **MEDITEST, the performance of a stakeholder in the health field**

Thanks to its experience, MEDITEST has contributed to the safe use of ionizing radiation equipment.

MEDITEST improves the retention time for equipment settings via two parameters:

1. MEDITEST provides users with several product ranges from internationally-renowned manufacturers using the most advanced techniques.
2. MEDITEST's involvement in public health issues is reflected by close collaboration alongside experts at the CEA-LNE-LNHB in order to provide access to optimum safety for everyone in the use of X-rays.

To this end, in 2011, MEDITEST signed a technology transfer license agreement with the primary laboratory CEA-LNE-LNHB.

## **MEDITEST creates MEDIX LAB**

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The first secondary French metrology laboratory for low-energy X-ray calibration under the auspices of the CEA-LNE-LNHB, the national metrology laboratory for ionizing radiation

By performing dosimetric calibration for all measuring instruments, MEDIX LAB enables MEDITEST to ensure equipment performance and contribute to the reliable estimation of doses received.

## MEDIX LAB: EXCLUSIVE RESOURCES TO MEET ITS MISSION

MEDIX LAB provides quality control tools for medical facilities using low-energy X-rays in the following fields:

- conventional radiology
- CT scanning
- bone densitometry
- mammograms
- interventional radiology
- dental radiology
- radioprotection

### MEDIX LAB: its excellent features

- Reference ionization chambers calibrated in air kerma by the Laboratoire National Henri Becquerel, the primary national reference laboratory for air kerma calibration
- Measurement devices calibrated for the high voltage of generators in order to calibrate kVp meters
- Beam qualities RQR3 to RQR10 and RQR-M1 to RQR-M4 (NF61267)

Here the list of X-rays beam qualities that MEDIX LAB offers:

- RQR 3 (50 kV – HVL 1,78 mmAl)
- RQR 4 (60 kV – HVL 2,19 mmAl)
- RQR 5 (70 kV – HVL 2,58 mmAl)
- RQR 6 (80 kV – HVL 3,01 mmAl)
- RQR 7 (90 kV – HVL 3,48 mmAl)
- RQR 8 (100 kV – HVL 3,97 mmAl)
- RQR 9 (120 kV – HVL 5,00 mmAl)
- RQR 10 (150 kV – HVL 6,57 mmAl)
- RQA 3 (50 kV – HVL 3,8 mmAl)
- RQA 5 (70 kV – HVL 6,8 mmAl)
- RQA 7 (90 kV – HVL 9,2 mmAl)
- RQA 9 (1200 kV – HVL 11,6 mmAl)
- RQT 8 (100 kV – HVL 6,9 mmAl)
- RQT 9 (120 kV – HVL 8,4 mmAl)
- RQT 10 (150 kV – HVL 10,1 mmAl)
- N 40 (40 kV – HVL 0,084 mmCu)
- N 60 (60 kV – HVL 0,24 mmCu)
- N 80 (80 kV – HVL 0,58 mmCu)
- N 100 (100 kV – HVL 1,11 mmCu)
- N 120 (120 kV – HVL 1,71 mmCu)
- N 150 (150 kV – HVL 2,36 mmCu)
- RQR-M 1 (25 kV – HVL 0,28 mmAl)
- RQR-M 2 (28 kV – HVL 0,31 mmAl)
- RQR-M 3 (30 kV – HVL 0,33 mmAl)
- RQR-M 4 (35 kV – HVL 0,36 mmAl)
- Mo/Rh 28 (28 kV – HVL 0,384 mmAl)
- Mo/Rh 38 (38 kV – HVL 0,450 mmAl)
- Rh/Rh 25 (25 kV – HVL 0,321 mmAl)
- Rh/Rh 32 (32 kV – HVL 0,418 mmAl)

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