



Whole blood 5 minute intact PTH  
*in the operating room*

## Intact PTH

Indispensable during parathyroidectomy  
May assist in secondary and tertiary hyperparathyroidism  
Useful during thyroidectomy

**nbcl**

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# Intact PTH assay performance

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<b>Assay dynamic range</b>	0-3000 pg/mL
<b>Method comparison</b>	The NBCL Intact PTH assay was compared to a commercially available immunoassay on plasma samples. A correlation coefficient of $r=0.95$ was obtained with a linear regression formula of NBCL Intact PTH = $1.14 \times (\text{commercially available PTH}) - 3.61$ pg/mL
<b>Whole blood</b>	Whole blood samples on the NBCL Intact PTH were compared to plasma samples on the NBCL Intact PTH. A correlation coefficient of $r=0.96$ was obtained with a linear regression formula of Whole blood = $0.96 \times \text{Plasma} + 2.97$ pg/mL
<b>Limit of detection</b>	< 5 pg/mL
<b>Assay time</b>	5 minutes
<b>Sample volume</b>	100 $\mu$ L whole blood

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## Easy to perform anywhere

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### 1 Scan patient ID



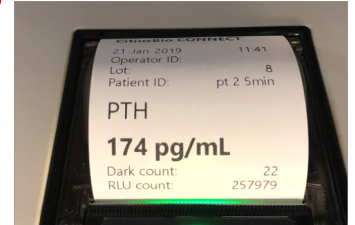
Insert whole blood EDTA sample tube

### 2 Scan reagent cartridge



Place cartridge, close cover and start

### 3 Read results



Displayed on screen and printer within 5 minutes

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## Instrument specifications

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<b>Principle</b>	Chemiluminescent microparticle assays
<b>Sensitivity</b>	Controlled temperature, precision pipetting and photomultiplier
<b>Throughput</b>	1 sample per run (up to 10 per hour)
<b>Dimensions</b>	370 x 365 x 460 mm (w x d x h)
<b>Weight</b>	10 kg
<b>Voltage</b>	100 – 240V
<b>Power consumption</b>	450W
<b>Printer</b>	Integrated
<b>Display</b>	LCD touch screen
<b>Barcode reader</b>	Integrated

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## Ordering information

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NBCL Intact PTH kit	60-0101
NBCL Intact PTH calibrator kit	60-0105
NBCL Intact PTH quality controls kit	60-0106
NBCL CONNECT instrument	80-0800

**nbcl**

Kerkenbos 1097C | 6546 BB Nijmegen | The Netherlands  
W: [www.nbcl.nl](http://www.nbcl.nl) | E: [info@nbcl.nl](mailto:info@nbcl.nl) | T: +31 24 7111088

A clinical room, likely an interventional radiology suite. In the background, a hospital bed is partially visible. To the right, a white storage cart with drawers and a red arrow sticker is positioned. In the foreground, a black trolley holds a white nbcl analyzer with a blue screen and a sample tray. The floor is light-colored and polished.

Whole blood 5 minute cortisol  
*at interventional radiology*

Cortisol

Essential during adrenal vein sampling procedures

**nbcl**

# Cortisol assay performance

<b>Assay dynamic range</b>	0-1500 µg/dL
<b>Method comparison</b>	The NBCL cortisol assay was compared to a commercially available immunoassay on plasma samples. A correlation coefficient of $r=0.97$ was obtained with a linear regression formula of NBCL cortisol = $0.76$ (commercially available cortisol) + $21.1$ µg/dL
<b>Precision</b>	A precision study using two controls (10.4 µg/dL and 53.3 µg/dL) resulted in a total CV of respectively 8.7% and 5.9%.
<b>Limit of detection</b>	0.3 µg/dL
<b>Assay time</b>	5 minutes
<b>Sample volume</b>	10 µL whole blood

## Easy to perform anywhere

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## Ordering information

NBCL cortisol kit	60-0201
NBCL cortisol calibrator kit	60-0205
NBCL cortisol quality controls kit	60-0206
NBCL CONNECT instrument	80-0800

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Whole blood 5 minute assays  
*anywhere by anyone*

High sensitivity point of care

Operating room  
*Whole blood Intact PTH*

Interventional radiology  
*Whole blood cortisol*

Emergency department  
*Whole blood hs-troponin, NT-proBNP & D-Dimer*

**nbcl**

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# Instrument features

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**Easy to use cartridges**  
**Easy sample handling**  
**Simple design**  
**Use anywhere**  
**Easy calibration**

**Easy quality control**

**Quick processing**  
**Superior sensitivity**

Ready to use reagent cartridges - no reagent preparation  
Accepts EDTA and LiHep whole blood tubes  
Anyone can run an assay  
Stand-alone instrument, connect to power only  
Master curve data in barcode of reagent cartridges, 2-point calibration every 30 days (depending on the assay)  
Quality controls are run to ensure validity of calibration (interval depends on the assay)  
Allows turnaround time of 5 minutes per assay  
Precision pipetting, controlled assay temperature and highly sensitive photomultiplier tube allow to run microparticle assays with chemiluminescence and achieve a PTH sensitivity of < 5 pg/mL and a hs-troponin sensitivity of < 5 ng/L

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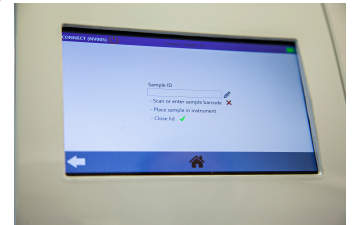
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# Ordering information

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NBCL CONNECT instrument	80-0800
NBCL Intact PTH kit	60-0101
NBCL cortisol kit	60-0201

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