VIDAS®
PARATHYROID HORMONE (1-84)
3rd generation precision

PIONEERING DIAGNOSTICS
**Did you know?**

**Parathyroid Hormone (PTH)**
- Main hormone involved in calcium and phosphorus homeostasis
- PTH (1-84) = biologically active form
- Half-life ≤ 4 minutes in the bloodstream
- Rapidly degraded by the liver into non-(1-84) C-terminal fragments with longer half-lives, essentially (7-84) and (53-84), eliminated by the kidneys

**Key characteristics of 3rd generation PTH assays:**
- Recognize only PTH (1-84)
- No cross-reaction with other non-active fragments
- Correlated with WHO* International Standard

Parathyroid Hormone 1-84, recombinant, coded 95/646

*WHO: World Health Organization

**Parathyroid Hormone (PTH)**
- Main hormone involved in calcium and phosphorus homeostasis
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**Why choose a 3rd generation PTH assay?**

- WHO* recommends the use of the International Standard PTH 1-84, recombinant (95/646)
- Clinicians recognize the analytical value of 3rd generation test specificity, particularly for dialysis patients
- Labs rely on a single standardized technique for various clinical applications

**Better standardization between 3rd generation PTH tests**
- More accurate results for better patient management
- Increased lab efficiency

**How can 3rd generation diagnostic accuracy help CKD patients?**

In chronic kidney disease (CKD) patients, bone and mineral disorders worsen as the disease progresses.

International KDIGO guidelines recommend:
- Regular PTH and Vitamin D measurement to monitor calcium homeostasis and adapt treatment
- PTH concentration of dialysis patients maintained within 2 and 9 times the upper normal limit of the assay

When the kidneys fail to function the C-terminal fragments of PTH accumulate in the circulation, acting as an important confounder.

Using 3rd generation PTH assays rather than 2nd generation to detect only the active parathyroid hormone is therefore essential to provide greater specificity for more accurate follow-up of CKD patients.

**CLINICAL APPLICATIONS**
- Aid to diagnosis of hyperparathyroidism or hypoparathyroidism
- Aid for the monitoring of calcium homeostasis in patients with chronic kidney disease (CKD)

**VIDAS® PTH (1-84)**

**3rd generation precision**

**Choose accuracy & cost-effectiveness**

**VIDAS® PTH (1-84) test format**
- Sandwich enzyme immunoassay method with capture of the N-Terminal portion and detection of the C-terminal portion.

**Specific of the biologically active PTH form**
- Directly correlated with International Standard WHO 95/646
- Easy in-house testing: Your quality, Your way
- Reduced cost per patient:
  - 84-day calibration
  - Calibrator and control included in the kit
  - On-demand testing adapted to small/medium volumes
- No observed biotin interference (tested up to 2,000 ng/mL)

**Your VIDAS® Platform:**

Easily complete monitoring of CKD patients

- Perform PTH (1-84), 25 OH Vitamin D and Ferritin tests on the same analyzer
- Reliable VIDAS® 25 OH Vitamin D Total assay:
  - Detection of both vitamin D2 and D3
  - Good correlation with LC-MS/MS mass spectrometry

**Target VIDAS® PTH (1-84) levels**
90 - 400 pg/mL

*Exact values: 89.2-401.4 in the package insert

- 2 calibrators every 28 days
- 2 QC per day

**Total number of PTH tests for 200 patients over 250 working days**

- VIDAS®
- Other commercialized test

- Calibration & Control frequency
- Patients
AVAILABLE ON VIDAS® INSTRUMENTS: VIDAS®, MINI VIDAS® AND VIDAS® 3

**VIDAS® PTH (1-84)**

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<tr>
<th>Description</th>
<th>Value</th>
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<td>Reference</td>
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**NEW**

**VIDAS® Bone & Mineral Metabolism panel**

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<td><strong>VIDAS® Ferritin</strong></td>
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REFERENCES

1. WHO/BS/09.21
4. See package insert.