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Fast, Integrated Anemia Testing

Improve your laboratory productivity with a comprehensive anemia test menu on the Dimension EXL 200/EXL with LM systems.

Now Available!
LOCI® Vitamin B12 and Folate assays on the Dimension® EXL™ 200/EXL™ with LM Systems.

Vitamin B12 and folate are necessary for DNA synthesis, and work together in the production of red blood cells. Deficiency of these two critical vitamins is primarily due to insufficient dietary intake or reduced absorption by the intestines. It increases the risk of neurological damage, mental conditions, and pregnancy complications. Over time, it can lead to vitamin deficiency anemia, with signs and symptoms similar to other types of anemia.¹

Affecting over 1.6 billion people worldwide, anemia is a global public-health problem for both rich and poor countries, with major consequences for human health and socioeconomic

development.² Use of proper diagnostic testing is crucial for the accurate detection and differentiation of anemia. Vitamin B12 and folate assays, along with other chemistry and immunodiagnostic tests, are key for proper patient diagnosis and treatment. The Dimension EXL with LM and Dimension EXL 200 systems now offer a comprehensive menu of anemia assays, including ferritin, vitamin B12, folate, iron, transferrin, and TIBC.

The Dimension EXL Vitamin B12 and Folate assays offer:

- Excellent performance:
 - Great precision
 - Fast turnaround time
 - Great recovery of the WHO standard
- Small sample volume
- Wide analytical measuring range

Answers for life.

Performance Summary

Assay	Sample type	Sample volume	Assay range	Reference range	Sensitivity	Calibration interval	Open well stability	Onboard stability (sealed wells)	Time to first result
Vitamin B12	serum/plasma (heparin/EDTA)	12 µL	80–2000 pg/mL 59–1476 pmol/L	US: 193–986 pg/mL Europe: 182–625 pg/mL	LoB: 30 pg/mL LoD: 50 pg/mL LoQ: 80 pg/mL	21 days	3 days	30 days	32 minutes
Folate	serum/plasma (heparin)	10 µL	0.5–20 ng/mL 1.1–45.3 nmol/L	8.6–58.9 ng/mL	LoB: 0.2 ng/mL LoD: 0.5 ng/mL	21 days	5 days	30 days	21 minutes

With the addition of LOCI vitamin B12 and folate assays on the Dimension EXL systems, you can now consolidate all your anemia diagnostic testing onto one platform, leading to increased workflow efficiency and reduced operational costs.

References

1. Website [(Internet)]. Available from: <http://www.mayoclinic.org/diseases-conditions/vitamin-deficiency-anemia/basics/definition/con-20019550>
2. WHO. Worldwide prevalence of anaemia 1993–2005 WHO Global Database on Anaemia. http://whqlibdoc.who.int/publications/2008/9789241596657_eng.pdf. 2008

For more information, visit www.siemens.com/anemia

Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

Assay	Precision	
	Repeatability	Within-lab
Vitamin B12	Serum Pools: 5.6% @ 180 pg/mL 2.5% @ 978 pg/mL 1.6% @ 1733 pg/mL	Serum Pools: 6.5% @ 180 pg/mL 2.8% @ 978 pg/mL 2.0% @ 1733 pg/mL
Folate	Serum Pools: 4.8% @ 2.3 ng/mL 2.2% @ 16.7 ng/mL	Serum Pools: 6.5% @ 2.3 ng/mL 4.0% @ 16.7 ng/mL

Ordering Information			
Product	Catalog Number	Contents	Number of Tests
Vitamin B12	RF642 (SMN # 10463371)	Dimension EXL LOCI® VB12 4 Flex Cartridges	20 tests/well 20 tests/flex 80 tests/kit
Folate	RF644 (SMN # 10463370)	Dimension EXL LOCI® FOLA 4 Flex Cartridges	20 tests/well 20 tests/flex 80 tests/kit
Calibrator	RC640 (SMN # 10463372)	LOCI ANEMIA Calibrator (VB12 and FOLA)	10 vials, 5 levels 2 x 2.0 mL each

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Order No. A91DX-CAI-140297-GC1-4A00
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