

# Assays for Vitamins and Metabolic Function



CPT: 82306, 82652, 82379, 82607, 82746, 83090, 84207, 85385, 86352, 83698

## CMS Policy for Delaware, Maryland, New Jersey, Pennsylvania, Virginia (Suburbs), and Washington, D.C.

Local policies are determined by the performing test location. This is determined by the state in which your performing laboratory resides and where your testing is commonly performed.

Medically Supportive ICD Codes are listed on subsequent page(s) of this document.

### Coverage Indications, Limitations, and/or Medical Necessity

Notice: It is not appropriate to bill Medicare for services that are not covered (as described by this entire LCD) as if they are covered. When billing for non-covered services, use the appropriate modifier.

Compliance with the provisions in this policy may be monitored and addressed through post payment data analysis and subsequent medical review audits.

Medicare generally considers vitamin assay panels (more than one vitamin assay) a screening procedure and therefore, non-covered. Similarly, assays for micronutrient testing for nutritional deficiencies that include multiple tests for vitamins, minerals, antioxidants and various metabolic functions are never necessary. Medicare reimburses for covered clinical laboratory studies that are reasonable and necessary for the diagnosis or treatment of an illness. Many vitamin deficiency problems can be determined from a comprehensive history and physical examination. Any diagnostic evaluation should be targeted at the specific vitamin deficiency suspected and not a general screen. Most vitamin deficiencies are nutritional in origin and may be corrected with supplemented vitamins.

Most vitamin deficiencies are suggested by specific clinical findings. The presence of those specific clinical findings may prompt laboratory testing for evidence of a deficiency of that specific vitamin. Certain other clinical states may also lead to vitamin deficiencies (malabsorption syndromes, etc.).

### Limitations

For Medicare beneficiaries, screening tests are governed by statute. Vitamin or micronutrient testing may not be used for routine screening. Once a beneficiary has been shown to be vitamin deficient, further testing is medically necessary only to ensure adequate replacement has been accomplished. Thereafter, annual testing may be appropriate depending upon the indication and other mitigating factors.

The following tests are considered non-covered services:

- Assays of selenium (84255)
- Functional intracellular analysis (84999)
- Total antioxidant function (84999)
- Assays of vitamin testing, not otherwise classified\* (84591)

\*Note: Assays of vitamin testing, not otherwise classified (84591) is not covered since all clinically relevant vitamins have specific assays

Notice: This LCD imposes the following limitations to the tests addressed in this LCD. These limitations will support automated denials as follows:

- Noncovered as described above (84255, 84999, 84591)
- Diagnosis to procedure limitations only (86352)
- Frequency limitations\* only (82180, 84252, 84425, 84446, 84590, 84597)
- Diagnosis to procedure and frequency limitations\* (82306, 82652, 82379, 82607, 82746, 83090, 84207, 85385, 83698)

\*Note: Please refer to the "Utilization Guidelines" section for an outline of the frequency limitations. Frequency limitations do not establish medical necessity for all testing but does reflect how the medical community uses the tests. Patterns of billing will be monitored for potential utilization of these tests for screening purposes, either by use of a single test or multiple tests together.

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## CMS Policy for Delaware, Maryland, New Jersey, Pennsylvania, Virginia (Suburbs), and Washington, D.C. (continued)

Notice: This LCD imposes diagnosis limitations that support diagnosis to procedure code automated denials. However, services performed for any given diagnosis must meet all of the indications and limitations stated in this policy, the general requirements for medical necessity as stated in CMS payment policy manuals, any and all existing CMS national coverage determinations, and all Medicare payment rules.

As published in CMS IOM 100-08, Chapter 13, Section 13.5.1, in order to be covered under Medicare, a service shall be reasonable and necessary. When appropriate, contractors shall describe the circumstances under which the proposed LCD for the service is considered reasonable and necessary under Section 1862(a)(1)(A). Contractors shall consider a service to be reasonable and necessary if the contractor determines that the service is:

- Safe and effective.
- Not experimental or investigational (exception: routine costs of qualifying clinical trial services with dates of service on or after September 19, 2000 that meet the requirements of the Clinical Trials NCD are considered reasonable and necessary).
- Appropriate, including the duration and frequency that is considered appropriate for the service, in terms of whether it is:
  - Furnished in accordance with accepted standards of medical practice for the diagnosis or treatment of the patient's condition or to improve the function of a malformed body member.
  - Furnished in a setting appropriate to the patient's medical needs and condition.
  - Ordered and furnished by qualified personnel.
  - One that meets, but does not exceed, the patient's medical needs.
  - At least as beneficial as an existing and available medically appropriate alternative.

### Utilization Guidelines

In accordance with CMS Ruling 95-1 (V), utilization of these services should be consistent with locally acceptable standards of practice.

Medicare recognizes certain tests may exceed the stated frequencies. Should a denial occur, additional documentation can be submitted to support medical necessity. Payment for additional tests may be allowed in selected circumstances when, upon medical review, the medical necessity of additional services is demonstrated.

Following a review of utilization data at various percentiles of units billed per year, the following frequency limitations are established and are as follows:

- 82306 up to 3 times per year
- 82652 up to 2 times per year

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# Assays for Vitamins and Metabolic Function

Vitamin D 25 Hydroxy and Vitamin D 1 25 Dihydroxy



CPT: 82306, 82652

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*\*Note—Bolded diagnoses below have the highest utilization*

| Code    | Description  |
|---------|--|
| E21.0   | Primary hyperparathyroidism                                |
| E21.3   | Hyperparathyroidism, unspecified                           |
| E55.9   | Vitamin D deficiency, unspecified                          |
| E83.51  | Hypocalcemia   |
| E83.52  | Hypercalcemia  |
| K90.0   | Celiac disease   |
| K90.9   | Intestinal malabsorption, unspecified                      |
| M32.9   | Systemic lupus erythematosus, unspecified                  |
| M81.0   | Age-related osteoporosis w/o current pathological fracture |
| M81.8   | Other osteoporosis without current pathological fracture   |
| M85.80  | Oth disrd of bone density and structure, unspecified site  |
| M85.9   | Disorder of bone density and structure, unspecified        |
| M89.9   | Disorder of bone, unspecified                              |
| N18.30  | Chronic kidney disease, stage 3 unspecified                |
| N18.31  | Chronic kidney disease, stage 3a                           |
| N18.32  | Chronic kidney disease, stage 3b                           |
| N18.4   | Chronic kidney disease, stage 4 (severe)                   |
| N25.81  | Secondary hyperparathyroidism of renal origin              |
| Z79.891 | Long term (current) use of opiate analgesic                |
| Z79.899 | Other long term (current) drug therapy                     |

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# Assays for Vitamins and Metabolic Function

Vitamin B 12, Assay of Folic Acid Serum and Assay of Homocystine



CPT: 82607, 82746, 83090

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| Code    | Description   |
|---------|---|
| D51.0   | Vitamin B12 defic anemia due to intrinsic factor deficiency |
| D51.1   | Vit B12 defic anemia d/t slctv vit B12 malabsorp w protein  |
| D51.3   | Other dietary vitamin B12 deficiency anemia                 |
| D51.8   | Other vitamin B12 deficiency anemias                        |
| D51.9   | Vitamin B12 deficiency anemia, unspecified                  |
| D52.0   | Dietary folate deficiency anemia                            |
| D52.9   | Folate deficiency anemia, unspecified                       |
| D53.1   | Other megaloblastic anemias, not elsewhere classified       |
| D53.9   | Nutritional anemia, unspecified                             |
| D69.6   | Thrombocytopenia, unspecified                               |
| E53.8   | Deficiency of other specified B group vitamins              |
| E72.11  | Homocystinuria  |
| G60.9   | Hereditary and idiopathic neuropathy, unspecified           |
| K90.0   | Celiac disease  |
| K90.9   | Intestinal malabsorption, unspecified                       |
| R20.0   | Anesthesia of skin  |
| R20.2   | Paresthesia of skin   |
| R41.3   | Other amnesia   |
| Z79.891 | Long term (current) use of opiate analgesic                 |
| Z79.899 | Other long term (current) drug therapy                      |

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# Assays for Vitamins and Metabolic Function

## Assay of Carnitine



CPT: 82379

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| Code    | Description   |
|---------|---|
| D63.1   | Anemia in chronic kidney disease                        |
| E71.40  | Disorder of carnitine metabolism, unspecified           |
| E71.41  | Primary carnitine deficiency                            |
| E71.42  | Carnitine deficiency due to inborn errors of metabolism |
| E71.43  | latrogenic carnitine deficiency                         |
| E71.440 | Ruvalcaba-Myhre-Smith syndrome                          |
| E71.448 | Other secondary carnitine deficiency                    |
| I95.3   | Hypotension of hemodialysis                             |

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# Assays for Vitamins and Metabolic Function

## Assay of Vitamin B6



CPT: 84207

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| Code   | Description  |
|--------|--|
| D64.0  | Hereditary sideroblastic anemia  |
| D64.1  | Secondary sideroblastic anemia due to disease                          |
| D64.2  | Secondary sideroblastic anemia due to drugs and toxins                 |
| D64.3  | Other sideroblastic anemias  |
| E53.1  | Pyridoxine deficiency  |
| E67.2  | Megavitamin-B6 syndrome  |
| E83.39 | Other disorders of phosphorus metabolism                               |
| G25.70 | Drug induced movement disorder, unspecified                            |
| G25.71 | Drug induced akathisia   |
| G25.79 | Other drug induced movement disorders                                  |
| G25.89 | Other specified extrapyramidal and movement disorders                  |
| G25.9  | Extrapyramidal and movement disorder, unspecified                      |
| G26    | Extrapyramidal and movement disorders in diseases classified elsewhere |
| G60.9  | Hereditary and idiopathic neuropathy, unspecified                      |
| K14.0  | Glossitis  |
| R74.8  | Abnormal levels of other serum enzymes                                 |

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# Assays for Vitamins and Metabolic Function

*Fibrinogen antigen*



CPT: 85385

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| Code   | Description  |
|--------|--|
| D47.3  | Essential (hemorrhagic) thrombocytopenia                         |
| D65    | Disseminated intravascular coagulation [defibrination syndrome]  |
| D68.2  | Hereditary deficiency of other clotting factors                  |
| D68.32 | Hemorrhagic disorder due to extrinsic circulating anticoagulants |
| D68.4  | Acquired coagulation factor deficiency                           |
| D69.3  | Immune thrombocytopenic purpura                                  |
| D69.41 | Evans syndrome   |
| D69.42 | Congenital and hereditary thrombocytopenia purpura               |
| D69.49 | Other primary thrombocytopenia                                   |
| D69.51 | Posttransfusion purpura  |
| D69.59 | Other secondary thrombocytopenia                                 |
| D69.6  | Thrombocytopenia, unspecified                                    |
| R79.1  | Abnormal coagulation profile                                     |

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# Assays for Vitamins and Metabolic Function

Cell function assay w/ stim



CPT: 86352

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| Code    | Description                             |
|---------|---|
| T86.298 | Other complications of heart transplant |
| Z94.1   | Heart transplant status                 |

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# Assays for Vitamins and Metabolic Function

Assay lipoprotein pla2



CPT: 83698

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| Code   | Description   |
|--------|---|
| E11.65 | Type 2 diabetes mellitus with hyperglycemia                                     |
| E11.9  | Type 2 diabetes mellitus without complications                                  |
| E13.9  | Other specified diabetes mellitus without complications                         |
| 78.00  | Pure hypercholesterolemia, unspecified  |
| E78.01 | Familial hypercholesterolemia   |
| E78.1  | Pure hyperglyceridemia  |
| E78.2  | Mixed hyperlipidemia  |
| E78.3  | Hyperchylomicronemia  |
| E78.49 | Other hyperlipidemia  |
| 125.10 | Atherosclerotic heart disease of native coronary artery without angina pectoris |

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