



If a conflict arises between a Clinical Payment and Coding Policy (“CPCP”) and any plan document under which a member is entitled to Covered Services, the plan document will govern. If a conflict arises between a CPCP and any provider contract pursuant to which a provider participates in and/or provides Covered Services to eligible member(s) and/or plans, the provider contract will govern. “Plan documents” include, but are not limited to, Certificates of Health Care Benefits, benefit booklets, Summary Plan Descriptions, and other coverage documents. BCBSOK may use reasonable discretion interpreting and applying this policy to services being delivered in a particular case. BCBSOK has full and final discretionary authority for their interpretation and application to the extent provided under any applicable plan documents.

Providers are responsible for submission of accurate documentation of services performed. Providers are expected to submit claims for services rendered using valid code combinations from Health Insurance Portability and Accountability Act (“HIPAA”) approved code sets. Claims should be coded appropriately according to industry standard coding guidelines including, but not limited to: Uniform Billing (“UB”) Editor, American Medical Association (“AMA”), Current Procedural Terminology (“CPT®”), CPT® Assistant, Healthcare Common Procedure Coding System (“HCPCS”), ICD-10 CM and PCS, National Drug Codes (“NDC”), Diagnosis Related Group (“DRG”) guidelines, Centers for Medicare and Medicaid Services (“CMS”) National Correct Coding Initiative (“NCCI”) Policy Manual, CCI table edits and other CMS guidelines.

Claims are subject to the code edit protocols for services/procedures billed. Claim submissions are subject to claim review including but not limited to, any terms of benefit coverage, provider contract language, medical policies, clinical payment and coding policies as well as coding software logic. Upon request, the provider is urged to submit any additional documentation.

## Intracellular Micronutrient Analysis

**Policy Number: CPCPLAB029**

**Version 1.0**

**Plan Effective Date: Nov. 1, 2022**

### Description

BCBSOK has implemented certain lab management reimbursement criteria. Not all requirements apply to each product. Providers are urged to review Plan documents for eligible coverage for services rendered.

### Reimbursement Information:

Intracellular micronutrient panel testing, including but not limited to SpectraCell, Cell Science Systems cell micronutrient assay and ExaTest, **is not reimbursable.**

### Procedure Codes

Codes
82128, 82136, 82180, 82310, 82379, 82495, 82525, 82607, 82652, 82725, 82746, 82978, 83735, 83785, 84207, 84252, 84255, 84425, 84446, 84590, 84591, 84597, 84630, 84999, 86353, 88348

## References:

- Bucci, L. R. (1993). A functional analytical technique for monitoring nutrient status and repletion. *Am Clin Lab*, 12(6), 8, 10. Retrieved from [https://www.spectracell.com/media/uploaded/2/0e2008171\\_251fullpaper1993acla-functional-analytical-technique-for-monitoring-nutrient-status--part-2.pdf](https://www.spectracell.com/media/uploaded/2/0e2008171_251fullpaper1993acla-functional-analytical-technique-for-monitoring-nutrient-status--part-2.pdf)
- Bucci, L. R. (1994). A functional analytical technique for monitoring nutrient status and repletion. Part 3: clinical experience. *Am Clin Lab*, 13(5), 10-11. Retrieved from [https://www.spectracell.com/media/uploaded/2/0e2008145\\_252fullpaper1993acla-functional-analytical-technique-for-monitoring-nutrient-status--part-3.pdf](https://www.spectracell.com/media/uploaded/2/0e2008145_252fullpaper1993acla-functional-analytical-technique-for-monitoring-nutrient-status--part-3.pdf)
- CDC. (2015). Micronutrient Facts | IMMPaCt | CDC. Retrieved from <https://www.cdc.gov/impact/micronutrients/>
- Cell\_Science\_Systems. (2020). Understanding Your Cellular Nutrition Assays. Retrieved from <https://cellsciencesystems.com/pdfs/Understanding-Your-Alcat-Functional-Cellular-Assays.pdf>
- Elmadfa, I., & Meyer, A. L. (2014). Developing Suitable Methods of Nutritional Status Assessment: A Continuous Challenge. *Adv Nutr*, 5(5), 590S-598S. doi:10.3945/an.113.005330
- Exatest. (2014). EXA Test Managing Heart Disease and Quality of Life full spectrum mineral analysis: Technical Process Retrieved from <http://www.exatest.com/Technical%20Process.htm>
- Fairfield, K. (2017). Vitamin supplementation in disease prevention. Retrieved from [https://www.uptodate.com/contents/vitamin-supplementation-in-disease-prevention?search=vitamin-supplementation-in-disease-prevention&source=search\\_result&selectedTitle=1~150&usage\\_type=default&display\\_rank=1](https://www.uptodate.com/contents/vitamin-supplementation-in-disease-prevention?search=vitamin-supplementation-in-disease-prevention&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1)
- Frieden, E. (1985). New perspectives on the essential trace elements. *Journal of Chemical Education*, 62(11), 917. doi:10.1021/ed062p917
- Frye, D. L. (2010). Micronutrient Optimization Storage Trial Using Customized Vitamin & Mineral Replacement Therapy Most 2010. *Translational Biomedicine*, 1(3). Retrieved from <http://www.transbiomedicine.com/translational-biomedicine/micronutrient-optimization-storage-trial-using-customized-vitamin--mineral-replacement-therapy-most-2010.php?aid=2571>
- Gidden, F., & Shenkin, A. (2000). Laboratory support of the clinical nutrition service. *Clin Chem Lab Med*, 38(8), 693-714. doi:10.1515/cclm.2000.100
- Houston, M. C. (2010). The role of cellular micronutrient analysis, nutraceuticals, vitamins, antioxidants and minerals in the prevention and treatment of hypertension and cardiovascular disease. *Ther Adv Cardiovasc Dis*, 4(3), 165-183. doi:10.1177/1753944710368205
- Life, S. a. (2012). Micronutrients, Macro Impact. Retrieved from [http://www.sightandlife.org/fileadmin/data/Books/Micronutrients\\_Macro\\_Impact.pdf](http://www.sightandlife.org/fileadmin/data/Books/Micronutrients_Macro_Impact.pdf)
- McCabe, D., Lisy, K., Lockwood, C., & Colbeck, M. (2017). The impact of essential fatty acid, B vitamins, vitamin C, magnesium and zinc supplementation on stress levels in women: a systematic review. *JBIS Database System Rev Implement Rep*, 15(2), 402-453. doi:10.11124/jbisrir-2016-002965

Pazirandeh, S., Burns, David, Griffin, Ian. (2020). Overview of dietary trace minerals. Retrieved from [https://www.uptodate.com/contents/overview-of-dietary-trace-minerals?search=micronutrient%20deficiency&source=search\\_result&selectedTitle=2~74&usage\\_type=default&display\\_rank=2](https://www.uptodate.com/contents/overview-of-dietary-trace-minerals?search=micronutrient%20deficiency&source=search_result&selectedTitle=2~74&usage_type=default&display_rank=2)

Pearce, E. N., Lazarus, J. H., Moreno-Reyes, R., & Zimmermann, M. B. (2016). Consequences of iodine deficiency and excess in pregnant women: an overview of current knowns and unknowns. *The American Journal of Clinical Nutrition*, 104(suppl\_3), 918S-923S. doi:10.3945/ajcn.115.110429

Preiser, J. C., van Zanten, A. R., Berger, M. M., Biolo, G., Casaer, M. P., Doig, G. S., . . . Vincent, J. L. (2015). Metabolic and nutritional support of critically ill patients: consensus and controversies. *Crit Care*, 19, 35. doi:10.1186/s13054-015-0737-8

Raghavan, R., Ashour, F. S., & Bailey, R. (2016). A Review of Cutoffs for Nutritional Biomarkers. *Adv Nutr*, 7(1), 112-120. doi:10.3945/an.115.009951

Shive, W., Pinkerton, F., Humphreys, J., Johnson, M. M., Hamilton, W. G., & Matthews, K. S. (1986). Development of a chemically defined serum- and protein-free medium for growth of human peripheral lymphocytes. *Proc Natl Acad Sci U S A*, 83(1), 9-13.

SpectraCell. (2021a). Clinical Research Library. Retrieved from <https://spectracell.sitewrench.com/research-library>

SpectraCell. (2021b). LABORATORY REPORT. Retrieved from [https://assets.speakcdn.com/assets/2606/300\\_micronutrient\\_sample\\_report\\_8\\_19.pdf](https://assets.speakcdn.com/assets/2606/300_micronutrient_sample_report_8_19.pdf)

Steele, I., Allright, D., & Deutsch, R. (2020). A randomized observational analysis examining the correlation between patients' food sensitivities, micronutrient deficiencies, oxidative stress response and immune redox status. *Functional Foods in Health and Disease*, 10, 143-154. doi:10.31989/ffhd.v10i3.695

Vibrant. (2017). MICRONUTRIENTS Your guide to customized optimal nutrition. Retrieved from <https://www.vibrant-america.com/micronutrient/>

WHO. (1973). Trace elements in human nutrition. Report of a WHO expert committee. *World Health Organ Tech Rep Ser*, 532, 1-65.

Yamada, H., Yamada, K., Waki, M., & Umegaki, K. (2004). Lymphocyte and plasma vitamin C levels in type 2 diabetic patients with and without diabetes complications. *Diabetes Care*, 27(10), 2491-2492. doi:10.2337/diacare.27.10.2491

### Policy Update History:

11/1/2022	New policy
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