

Comparatie intre

Glycomacropeptide (GMP) versus Aminoacizi

	GMP	Aminoacizi
Sursa de proteine	Proteine naturale intacte	Aminoacizi sintetici
Absorbtie	<p>Absorbtie lenta^{1,2,5}</p> <p>a) Satietatea mai mare, sugerand complianta imbunatatita</p> <ul style="list-style-type: none"> • Nivele scazute de ghrelina (hormonul foamei) dupa masa, versus aminoacizi <p>b) Imbunatatirea retentiei azotate, utilizarea Phe</p> <ul style="list-style-type: none"> • Nivele serice scazute de BUN, nivale crescute de insulina si cresterea nivelelor de aminoacizi din circulatie <p>c) Stabilizarea Phe</p> <ul style="list-style-type: none"> • Variatii mai mici de Phe in cursul zilei 	<p>Absorbtie rapida^{1,2}</p> <p>Aminoacizii sunt in forma lor absorbabila, ceea ce conduce la o absorbtie rapida, sugerand:</p> <ul style="list-style-type: none"> • Satietate mai scazuta • Retentie azotata scazuta • Fluctuatii ale nivelelor de Phe
LNAA	<p>Contin in mod natural cantitati crescute de LNAA: treonina, izoleucina si valina</p> <ul style="list-style-type: none"> • Competitioneaza cu Phe la nivelul barierei hematoencefalice si reduc absorbtia intestinala de Phe 	Sursa sintetica de aminoacizi
pH	pH-ul neutru nu contribuie la eroziunea dentara	Formulele pe baza de aminoacizi au, in mod uzual, un pH acid care contribuie la eroziunea dentara ³
Osmolalitate	Osmolalitatea scazuta contribuie la o imbunatatire a tolerantei gastrointestinale ⁴	Osmolalitatea crescuta poate cauza o suferinta gastrointestinala
Gust	Delicios, fara sa fie amar, preferat de 91% dintre pacienti, conform studiului publicat ²	Gust acid, amarui, metalic
Fenilalanina (Phe)	In mod natural contin o cantitate mica de Phe (1.5mg/g de proteina), care trebuie sa fie luata in calcul in doza zilnica a pacientului	Fara fenilalanina

Referinte:

¹MacLeod E, Clayton M, van Calcar S, Ney D. Breakfast with glycomacropeptide compared with amino acids suppresses plasma ghrelin levels in individuals with phenylketonuria. *Molecular Genetics and Metabolism*. 2010;100(4):303-308.

²van Calcar, S. C., MacLeod, E. L., Gleason, S. T., Etzel, M. R., Clayton, M. K., Wolff, J. A., & Ney, D. M. Improved nutritional management of phenylketonuria by using a diet containing glycomacropeptide compared with amino acids. *Am J Clin Nutr*. 2009; 89:1068–77.

³Touger-Decker, R., van Loveren, C. Sugars and dental caries. *Am J Clin Nutr*. 2003;78(4):8815-8925.

⁴Dietitian's Handbook of Enteral & Parenteral Nutrition (2012). Edited by: Annalynn Skipper. Chapter 19: Enteral Nutrition. Page 268.

⁵Ney D.M., Stroup B.M., Clayton M.K., Murali S.G., Rice G.M., Rohr F. and Levy H.L. glycomacropeptide for nutritional management of phenylketonuria: a randomized, controlled, crossover trial. *Am J Clin Nutr*. 2016; 104:334-45.