

# Abstract

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## **The effect of asparagine and adenine on the glutamine requirement for growth of human peripheral lymphocytes.**

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**BACKGROUND:** Quantitative growth responses of lymphocytes directly isolated from individual subjects in a newly developed chemically-defined, protein-free medium are used to demonstrate that supplements of both L-asparagine and a purine source, but neither alone, significantly reduce the quantitative requirement for L-glutamine for growth.

**CONCLUSION:** This system is useful for exploring individual differences in quantitative glutamine requirements and adequacy of asparagine and purine biosynthesis.

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