

# $\beta^{16}$ AsthmaGEN™ Drug Response Test Report

Date Sample Received: 12-03-07  
Report Date: 12-06-07



Customer Name: J. Smith  
Customer ID: A0000

Reviewed by: \_\_\_\_\_  
Product Manager

Laboratory Director:

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## Results:

Your genotype at the beta(2) adrenergic receptor gene, position 16, is **Arg/Arg**.

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## Summary and Interpretation of Results:

A cheek swab was submitted to Consumer Genetics, Inc. for genetic testing to determine the genotype of the customer, J. Smith, at the 16<sup>th</sup> amino acid position of the beta(2) adrenergic receptor gene. A standard genetic analysis was performed on the purified DNA sample. The result indicated that J. Smith was homozygous for the arginine polymorphism.

Scientific studies have linked the Arg/Arg genotype with poorer treatment outcomes when using asthma medication containing beta-agonists. The following selected publications serve as the basis for this conclusion:

Israel E, Chinchilli V M, Ford JG, et al. Use of regularly scheduled albuterol treatment in asthma: genotype-stratified, randomised, placebo-controlled cross-over trial. Lancet 364: 1505-1512, 2004. PMID: 15500895

Wechsler ME, Lehman E, Lazarus SC, et al. beta-Adrenergic receptor polymorphisms and response to salmeterol. Am J Respir Crit Care Med. 2006 Mar 1;173(5):519-26. PMID: 16322642

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## Disclaimer:

The information provided to you in this report is for informational purposes only and is not meant as a diagnostic test.

Consumer Genetics, Inc. strongly urges you to discuss the result of this genetic test with your physician. You should not make any treatment decisions without first consulting your doctor. If you or your doctor have any questions regarding the  $\beta^{16}$  AsthmaGen™ test or this result you may contact Consumer Genetics, Inc. toll free at 1-866-6-WHAT-R-U.

*Your genes, your health, your life!*