Test of substitution saturation (Xia et al. 2003; Xia and Lemey 2009)

Testing whether the observed Iss is significantly
lower than Iss.c.

Part I. For a symmetrical tree.
===
Prop. invar. sites   0.0000
Mean H   0.1796
Standard Error   0.0092
Hmax   1.8488
Iss   0.0971
Iss.c   0.7671
T   73.0171
DF   1034
Prob (Two-tailed)   0.0000
95% Lower Limit   0.0791
95% Upper Limit   0.1151

===
Part II. For an extreme asymmetrical (and generally very
unlikely) tree.
===
Iss.c   0.5505
T   49.4136
DF   1034
Prob (Two-tailed)   0.0000

95% Lower Limit   0.0791
95% Upper Limit   0.1151

===

Interpretation of results:
            Significant Difference

            Yes   No

Iss < Iss.c   Little   Substantial
               saturation   saturation

Iss > Iss.c   Useless   Very poor
               sequences   for phylogenetics

Please cite:

Xia, X., Z. Xie, M. Salemi, L. Chen, Y. Wang. 2003. An index of substitution saturation and its application. Molecular Phylogenetics and Evolution 26:1-7.

Xia, X. and Lemey, P. 2009. Assessing substitution saturation with DAMBE. Pp. 615-630 in Philippe Lemey, Marco Salemi and Anne-Mieke Vandamme, eds. The Phylogenetic Handbook: A Practical Approach to DNA and Protein Phylogeny. 2nd edition Cambridge University Press.