

William Slattery, CFA

Vice President

Listing Qualifications

By Electronic Mail

July 22, 2019

Division of Corporation Finance

U.S. Securities and Exchange Commission

100 F Street, N.E.

Washington, D.C. 20549

Division of Corporation Finance:

This is to certify that on July 22, 2019 The Nasdaq Stock Market (the "Exchange") received from Xenetic Biosciences, Inc. (the "Registrant") a copy of the Registrant's application on Form 8-A 12(b) for the registration of the following securities:

Purchase Warrants

We further certify that the securities described above have been approved by the Exchange for listing and registration upon official notice of issuance.

Sincerely,

