

Resource Summary Report

Generated by [dkNET](#) on Sep 8, 2026

High resolution labeling of vagal efferent fibers using Dextran-Biotin with counterstaining

DOI:10.17504/protocols.io.2iqgcdw

Type: Protocol

Proper Citation

Deborah Jaffey, Terry Powley, Jennifer Mcadams, Robert Phillips 2019. High resolution labeling of vagal efferent fibers using Dextran-Biotin with counterstaining. protocols.io dx.doi.org/10.17504/protocols.io.2iqgcdw

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.2iqgcdw>

Authors: Deborah Jaffey, Terry Powley, Jennifer Mcadams, Robert Phillips

Group: SPARC

Summary: This protocol describes the methods used to trace and enable morphometric quantification of preganglionic efferent neurites in the rat stomach. A mixture of dextran conjugates was injected into the dorsal motor nucleus of the vagal nerve (dmnX) of young adult Sprague-Dawley rats and after a survival period of 19 days for optimal tracer transport, stomachs were removed and processed as whole mounts. ABC-DAB was used to create a permanent gold-brown stain of all labeled efferent neurites. Subgroups of samples were also counterstained with either the panneuronal chromogen cuproline blue or with nNOS antibodies and steel gray chromogen to label nitroergic cells.

Affiliations: Purdue University, Purdue University, Purdue University, Purdue University

Version: 1

Publication Date: 2019

Proper Citation: Deborah Jaffey, Terry Powley, Jennifer Mcadams, Robert Phillips 2019. High resolution labeling of vagal efferent fibers using Dextran-Biotin with counterstaining. protocols.io dx.doi.org/10.17504/protocols.io.2iqgcdw

Record Creation Time: 20210329T220531+0000

Record Last Update: 20210329T220954+0000

Data and Source Information

Source: