

This document certifies that the below product meets the following criteria:

NA Catalog Number:	89170-796
Description :	VWR CARBOY PP 20L SANIT NECK

As per the manufacturer, polypropylene carboys are produced with a resin that uses a beef tallow derived additive, the production of which is described below:

Tallow derived additives may be used in the manufacture of this product. One additive in this product is derived from animal sources. The supplier has stated that their additive is derived from bovine material. They have further assured that the animal material is sourced from the United States, Canada or Mexico. The bovine material can be any part of the animal. There are two sets of process conditions specified by the suppliers for processing the bovine material. These are:

- (1) Hydrogenation of tallow @200 deg. C, hydrolysis @260 deg. C, and 48 bar for 1.5-2 hours and vacuum distillation @232 deg. C;*
- (2) Hydrolysis of tallow @260 deg. C, and 700 psig for 3 hours, hydrogenation of stearic acid @232 deg. C and 300 psig for 2.5 hours, and distilled at 232 deg. C for 5 minutes.*

Signed:



Ken Crossley
Manager
Quality Assurance

Date: December 08, 2016