

As per the manufacturer, the below product meets the following criteria:

NA Catalog Number:	89000-274
Description :	VWR CYLINDER BMPR TD 500ML PK1

Mad cow disease is the popular term for Bovine Spongiform Encephalopathy (BSE), one of a group of diseases in animals and humans called transmissible spongiform encephalopathies (TSE), or prion diseases. BSE is a fatal degenerative disease affecting the central nervous system of adult cattle. Pathologic changes are confined to the central nervous system and consist of sponge-like microscopic changes. The average incubation period is about five years, but it may range from two to eight years. Clinical signs include changes in temperament such as nervousness or aggression; abnormal posture; lack of coordination, decreased milk production; loss of body condition despite continued appetite and eventually, difficulty in rising. Following the onset of clinical signs, the animal's condition deteriorates— usually for two weeks to six months— until it dies or is killed.

Prevention:

Companies in the United States review their material sourcing to ensure that their products do not have an animal origin, and are therefore BSE/TSE free. The following series of questions were developed to answer the typical questions the manufacturer is asked relating to its products.

Is the product partly or fully of animal origin? (i.e., tissue, tissue extract or fluid such as milk, serum, blood, etc.)	No
Does the manufacturing process involve any raw materials, source materials, or reagents that are of animal origin?	No
Is the product derived from microbiological or cell culture fermentations? If yes, are any components used in the media culture derived from animal origin?	No
Is the product purified using chromatography media (e.g., specific ligand columns) or buffers that contain components of animal origin?	No
Is any of the equipment used for processing or storage of the product in contact at any time with other materials of animal origin?	No
Is the product, for any other reason, at any time, in contact with materials of animal origin?	No

Since the answer to ALL of the questions is NO, there is no need to provide additional details. The products do not contain components of animal origin.

Disclaimer: *The information herein provided may not be based upon actual test data, but rather information obtained from raw material supplier certificates or supplier Material Safety Data Sheets.*

Signed:



Ken Crossley
Manager
Quality Assurance

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