

PEPTONE S, ULTRAFILTERED (7680)

Intended Use

Peptone S, Ultrafiltered is a papaic digest of soybean meal, which has been ultrafiltered for use in microbiological culture media where improved filterability or low endotoxin levels are required.

Product Summary and Explanation

Peptone S, Ultrafiltered is a papaic digest of soybean meal prepared under controlled conditions for use in microbiological procedures. Peptone S, Ultrafiltered is recommended for use in media for the cultivation of a wide variety of organisms. The nitrogen source in Peptone S, Ultrafiltered contains naturally occurring, high concentrations of vitamins and carbohydrates of soybean. Due to its high carbohydrate content, Peptone S, Ultrafiltered cannot be used for fermentation studies. This media ingredient produces clear solutions at culture media concentrations and neutral reactions after autoclaving.

Peptone S, Ultrafiltered minimizes bovine spongiform encephalopathy (BSE) risk in vaccine production due to the plant origin of this product.

Principles of the Procedure

Peptone S, Ultrafiltered provides nitrogen, vitamins, and minerals in prepared culture media. Endotoxin levels have been significantly reduced by ultrafiltration to improve growth and minimize toxicity in cell culture applications.

Precaution

1. For Laboratory Use.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free-flowing, and light beige.

Prepared Appearance (2% wt/vol): Prepared medium is brilliant amber, without a precipitate.

Total Nitrogen: $\geq 8.0\%$

Amino Nitrogen: Record

Ash: $\leq 15\%$

pH (2% Solution at 25°C): 6.5 - 7.5

Loss on Drying: $\leq 5.0\%$

Endotoxin (LAL Method): ≤ 500 EU/g

Filterability (100 mL, 5% solution): Filterable through a 47 mm, 0.2 micron filter under 15 inches vacuum within 2 minutes.

Standard Plate Count: $\leq 10,000$ CFU/g

Salmonella (per 25 g): Negative

Enterobacteriaceae: ≤ 10 CFU/g

Expected Cultural Response: Cultural response on 2 % Peptone Agar at 35°C after 18 - 24 hours incubation.

Microorganism	Response
<i>Escherichia coli</i> ATCC 25922	good to excellent growth
<i>Staphylococcus aureus</i> ATCC 25923	poor to fair growth

Test Procedure

Refer to appropriate references for specific procedures using Peptone S, Ultrafiltered.

Results

Refer to appropriate references for test results.

Storage

Store sealed bottle containing Peptone S, Ultrafiltered at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

Expiration

Refer to expiration date stamped on the container. Peptone S, Ultrafiltered should be discarded if not free flowing, or if appearance has changed from the original color. Expiry applies to Peptone S, Ultrafiltered in its intact container when stored as directed.

Packaging**Peptone S, Ultrafiltered**

Code No.	7680A	500 g
	7680B	2 kg
	7680C	10 kg

Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (410)780-5120 or fax us at (410)780-5470.