



**GEMINI**  
BIO-PRODUCTS

# Certificate of Analysis

Created October 24, 2019

**Product:** **Piperacillin Sodium Salt Solution**  
**C<sub>23</sub>H<sub>26</sub>N<sub>5</sub>O<sub>7</sub>S · Na**  
Sterile-filtered

**Catalog #: 400-310**  
**Lot #: F36T06K**

**Manufacture Date: Sep 2019**  
**Expiration Date: Aug 2020**

TEST	METHODOLOGY	SPECIFICATION	RESULTS
<b>Biological Testing</b>			
Endotoxin	USP <85>	Report	<0.500 EU/mL
<b>Microbiological Testing</b>			
Sterility	USP<71>		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
<b>Physical Testing</b>			
Osmolality	USP<785>	Report	547 mOsm/kg
pH @ RT	USP<791>	Report	6.48

*For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.*

*[Signature]* 24 Oct 2019  
Created by/ date

*[Signature]* 24 Oct 2019  
Verified by/ date