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### Certificate of Analysis

Product Cellulase  
Source Trichoderma reesei ATCC#26921  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code CEL  
Lot Number  
Re-Assay Date  
Description Purified complex containing exo- and endoglucanase activities. A diafiltered, lyophilized powder. Tested for lipase, protease, and nuclease.  
Unit Definition One Unit liberates 0.01 milligrams of glucose per hour from microcrystalline cellulose at 37°C, pH 5.0.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	115	≥45 units per mg dry weight
A280nm @ 1 mg/ml	1.42	Report assay value.
Lipase Activity	None detected	Report assay value.
Nuclease	None detected	Report assay value.
Protease	None detected	Report assay value.

Approved by: Thomas R. Ryan, Quality Control Manager (signature on file)

Date: 10/3/19