

CERTIFICATE OF ANALYSIS

Product Description CELLULASE
 ONOZUKA R-10
Product Number C224
Lot Number HEY0224028
Storage Temperature 2-8°C
CAS Number 9012-54-8

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	7.4
Physical Appearance Color*	2152-60 to 2154-60, 2152-70 to 2156-70, 2015-70 to 2017-70, 2153-50, HC-32, or HC-35	2154-50 Beige
Texture	Fine Powder; may form clumps	Fine Powder, form clumps
Solution Appearance Clarity Color	Clear Slight Yellow to Beige Tint	Clear Beige Tint
Average Time to Dissolve	Within 15 min	Passes
Insolubles	None	Passes
Enzyme Activity	Minimum 10,000 units/g	Passes

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

The material described in this certificate was manufactured in Japan and was derived solely from the fermentation of *Trichoderma viride*. The medium used to grow this fungus contained no animal-derived material; it was sterilized at 105-110° C for 70 minutes prior to fermentation. Lactose, purified from Bovine milk of US origin, was added to the final product to adjust the enzyme activity to meet specification.

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Date of Release: 1-October-2021
Recommended Shelf Life Date: October 2026



David S. Hart
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