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## Product Specification

Product Name:

Matrix Metalloproteinase-9 human – recombinant, &gt;90% (SDS-PAGE), buffered aqueous solution

Product Number: **M8945**

Storage Temperature: -70 °C

TEST	Specification
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Formulation	Conforms
Solution in Tris-HCl, pH 7.5, Calcium Chloride, Sodium Chloride, and Brij-35	
Concentration	≥ 0.25 mg/ml
SDS Electrophoresis	Conforms
> 90%	
pmol/min/ug (Enzyme Activity)	≥ 1300
The specific activity is measured with 10 uM fluorogenic substrate and 10 ng of activated enzyme in 100 uL of TCNB Buffer (Tris-HCl, pH 7.5, Calcium Chloride, NaCl, Sodium Chloride, Brij-35) at room temperature. The fluorogenic substrate is (7-methoxycoumarin-4-yl) acetyl-Pro- Leu- Gly- Leu- (3- (2,4- dinitrophenyl)- L- 2,3- diaminopropionyl)- Ala- Arg- NH <sub>2</sub> . Cleavage of the substrate can be measured at excitation and emission wavelengths of 320 nm and 405 nm respectively	
Endotoxin Assay	Conforms
< 1.1 EU/ug	

Specification: PRD.0.ZQ5.10000101591

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.