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Product Specification

Product Name:

Luciferase from Photinus pyralis (firefly) – recombinant, expressed in E. coli, buffered aqueous solution,
 $\geq 10 \times 10^{10}$ units/mg protein

Product Number:

L9420

CAS Number:

61970-00-1

Storage Temperature:

-20 °C

TEST

Specification

Appearance (Form)	Liquid
Appearance (Colour)	Colorless
Appearance (Turbidity)	Clear
Protein Content (Method)	E0.1% at 280nm
E0.1% = 0.75	
Prot. Content (mg Protein/ml)	≥ 5
Gel Electroph. (Purity)	$\geq 98.0\%$
Enzym. Assay (Spec. Activity)	≥ 100
billion U/mgP	
Enzym. Assay (Contam.1 Name)	NDPK
Enz. Assay(Activity contam. 1)	≤ 20
nanomolar units/mgP	
Enzym. Assay (Contam.2 Name)	ATPase
Enz. Assay(Activity contam. 2)	≤ 5
nanomolar units/mgP	
Unit Definition	-----
One luciferase enzyme unit will produce one Relative Light Unit (RLU) at 20-25 °C over a 10 second period, measured in 100 µl assay mixture containing 40 pmol ATP and 15 nmol luciferin in Tris-glycine buffer, pH 7.6, using a GloMax 20/20 Luminometer.	
Recommended Retest Period	-----
2 Years	

Specification: PRE.0.ZQ5.10000013962

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. 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.