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## Product Specification

Product Name:

Insulin human – recombinant, expressed in yeast, γ-irradiated, suitable for cell culture

**Product Number:** I3536  
**CAS Number:** 11061-68-0

**Formula:** C<sub>257</sub>H<sub>383</sub>N<sub>65</sub>O<sub>77</sub>S<sub>6</sub>  
**Formula Weight:** 5,807.57 g/mol  
**Storage Temperature:** -20 °C

TEST	Specification
Appearance (Color)	White to Off-White
Appearance (Form)	Powder
Solubility (Color)	Colorless to Faint Yellow
Solubility (Turbidity)	Clear
20 mg/ml, 0.01 M HCl	
Potency	≥ 25
Expressed in USP units/mg (2500 un/100 mg Vial by HPLC)	
Water (by Karl Fischer)	≤ 10 %
Cell Culture Test	Pass
2 OF 3 CELL LINES MUST BE > 50% OF CONTROL	
Sterility by USP guidelines	Pass
Sterilized (Gamma Irradiated)	Pass
Irradiation dose: Minimum > = 25 KGY and Maximum < = 35 KGY	

Specification: PRD.1.ZQ5.10000056036

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.