

## 南京都莱生物技术有限公司 025-84699383/84699415

网址: <u>www.njduly.com</u>

Nanjing Duly Biotech Co.,Ltd

邮箱: njduly@126.com

## 质量报告单 CERTIFICATE OF ANALYSIS

产品名称	牛胰岛素								
Product name	Insulin								
CAS号	440=0 =0 0								
CAS No.	11070-73-8								
批号	Lot:N2410270028								
Batch number	100.142 11027 0020								
生产日期	2024年40月27日	有效期 Expiring date		2025年10月26日					
Production date	2024年10月27日								
执行标准									
Standard	Enterprise standard			ı					
adopted									
分析项目	质量标准		实测结果						
Items of analysis	Specification		Results						
外观	应为白色或类白色的结晶		白色结晶性粉末						
appearance	Shall be white or	Shall be white or off white crystals		口色细胞性初入 White crystalline powder					
арреагапсе	•								
	在水、乙醇中几乎不溶; 在无		符合规定 Compliance with regulations						
	机酸或氢氧化钠溶液中易溶								
溶解度	Almost insoluble in water and								
solubility	ethanol, Soluble in inorganic								
	acid or sodium hydroxide								
		solution							
	含量测定项下记录的色谱图		保留时间一致 Consistent retention time						
	中,供试品溶液主峰的保留时								
	间应与对照品溶液主峰的保留								
	时间一致								
保留时间	In the chromatogram recorded								
retention time	under the content								
	determination item, the retention time of the main peak								
	of the test solution should be								
	consistent with the retention time of the main peak of the reference solution								
								<u> </u>	

肽图谱 Peptide map	供试品的肽图谱应与对照溶液的肽图谱一致 The peptide map of the test sample should be consistent with that of the control sample	肽图谱一致 The peptide map is consistent	
相关蛋白质 Related proteins	A21脱氨胰岛素不得大于 5.0%; 其他相关蛋白质不得大 于5.0% A21 deamination insulin shall not be greater than 5.0%; Other related proteins shall not be greater than 5.0%	A21脱氨胰岛素0.2%; 其他相关蛋白质3.3% A21 deamination insulin 0.2%; Other related proteins 3.3%	
高分子蛋白质 Macromolecular protein	总量不得大于1.0% The total amount shall not be greater than 1.0%	0.5%	
干燥失重 Loss on drying	105℃干燥至恒重,减失重量< 10.0% Dry at 105 ℃ to constant weight, reduce weight loss by ≤10.0%	6.2%	
锌 zinc	按干燥品计,含锌量不得过 1.0% The zinc content shall not exceed 1.0% based on the dry product	0.4%	
残留有机溶剂 Residual organic solvent	乙醚不得过0.5% Ether must not exceed 0.5% 乙醇不得过0.5% Ethanol shall not exceed 0.5% 丙酮不得过0.5% Acetone shall not exceed 0.5%	乙醚0.00004% Ether 0.00004% 乙醇0.009% Ethanol 0.009% 丙酮0.009% Aceton 0.009%	
生物活性 biological activity	每1mg的效价不得少于15单位 The potency per 1mg shall not be less than 15 units	26u/mg	
含量测定 Content determination	按干燥品计,含胰岛素(包括脱氨胰岛素)应为95.5%~ 105.0% According to the dry product, the content of insulin (including deamination insulin) should be 95.5%~105.0%	折干效价28.4u/mg;折干含量 97.9% The dry titer was 28.4u/mg; Dry content 97.9%	
结论	合格		

Qualified

审核员: 宋红版 Auditor: Hongme

质检员: 石雨 Quality inspector: Yu Shi

Conclusion