

# Zhejiang Kindly Medical Devices Co., Ltd

## Inspection Record of Hypodermic Needle

Version Number: 11/10 KDL/Record Quality -M006

Mfg Date: 28-10-2013 Report No.:2013071154

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Department to be inspected	Assembly MachineC5	Inspection No.	2013071154	Specification	20Gx1 1/2 *
Production Batch No.	131025	Quantity	100,000	Sampling date	28-10-2013
Inspection basis	ISO7864-1993	Inspection quantity (set)	130	Inspection date	28-10-2013 to 04-11-2013
Sampling scheme	Inspection item	Clause and standard requirements		Actual inspection result	Determined
All qualified	pH value	5. Compare inspected liquid and comparison liquid of the same batch, and the difference should be no more than 1.0		0.17	Qualified
	Limit value of extractable metal	6. Metal content should be no more than 5mg/l		<5mg/l	Qualified
	Sterile	4.7.1 Hypodermic needle should be sterile		Sterile	/
	Pyrogen	4.7.2 Hypodermic needle should be apyrogenity		Apyrogenity	Qualified
S-1 2.5 n=5 Ac=0 Re=1	Rigidity/hardness	11.1.1 Deflection $\geq 0.48\text{mm}$		0.366-0.396	Qualified
	Needle tubing strength	11.1.2 It should not break after 20-circle times		Conform to requirements	Qualified
	Needle tubing corrosion resistance	11.1.3 Good		Conform to requirements	Qualified
S-2 2.5 n=20 Ac=1 Re=2	Needle tip requirements	12.1 It should be sharp, without deckle edges, burrs and hooks defect		Conform to requirements	Qualified
		12.2 $\alpha=11^{\circ}\pm 2^{\circ}$		10.37°-10.81°	Qualified
	Needle file cone connector	9.1 It should conform to provisions of ISO594-1 or ISO594-2		Conform to requirements	Qualified
	Connection firmness	13.1 Exert pulling force of 54N, there is no loosening or separation of needle file and needle tubing		Conform to requirements	Qualified
S-4 6.5 n=80 Ac=10 Re=11	External diameter size	7 D=0.900 mm $\pm 0.01$ mm		0.900	Qualified
	Needle tubing length	11.2 L=38.0 mm +1.5 mm -2.5 mm		37.0-38.0	Qualified
	Needle cleaning	4 No particles and foreign materials		Conform to requirements	Qualified
	Smooth	13.2 Under water pressure of $\geq 100\text{KPa}$ , flow rate should be no less than 80% of minimum internal diameter or probe with corresponding size could pass smoothly		Conform to requirements	Qualified
	Needle file color	9.2 It should conform to ISO6009 provisions		Yellow	Qualified
	Needle tubing defect	11.3 It should be straight, with uniform cross section and wall thickness		Conform to requirements	Qualified
	Lubricant	11.4 Lubricant drop on needle tubing internal surface or external surface should be invisible		Conform to requirements	Qualified
	Jacket	10 It should protect needle tip		Conform to requirements	Qualified
Determination: conform to ISO7864-1993 <Sterile Hypodermic Needles for Single Use> standard provisions					

Tested by: Guo Miaomiao Zheng Langxing Cheng Saihe

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