

ESUNMED mPEG-PLGA RAW MATERIAL

Product Name	mPEG-PLGA
CAS No.	PEG: 25322-68-3, PLGA: 26780-50-7
Batch No.	25121609011090
Production Date	251216
Test Date	251226

Item	Unit	Standard	Reference standard	Method	Result
Appearance	/	White to brown solid	/	Visual Inspection	Brown solid
Product identification	/	Consistent with the standard map	/	¹ HNMR	Conforms
Intrinsic viscosity [η]	dL/g	/	Pharmacopeia 0633	Ubbard Viscosity Method HFIP /25°C	0.69
Molar ratio	%	LA:50±5 GA:50±5	/	¹ HNMR	LA:GA=51:49
Number-average molecular weight	g/mol	/	/	GPC (CDCl ₃)	29061
Dispersity (Đ)	/	≤2.5	/	GPC (CDCl ₃)	2.47
Molecular weight of PEG	g/mol	1500-2500	/	¹ HNMR	1703
Molecular weight of PLGA	g/mol	25000-35000	/	¹ HNMR	28435
Moisture	%	≤0.5	Pharmacopeia 0832	Karl Fischer Coulometric Titration	0.25
Monomer residue	%	≤1	YY/T 0661-2017	GC	LA: 0.57 GA:0.29
Solvent residue (Total)	ppm	<1000	Pharmacopeia 0861	GC	Conforms
Single solvent residue	%	ICH Q3C	Pharmacopeia 0861	GC	Conforms
Heavy metal residue (Pb)	ppm	≤10 (以铅计)	Pharmacopeia 0821	Pharmacopeia 0821	Conforms
Sn Residue	ppm	≤150	YY/T 0661-2017	ICP-MS	Conforms

Storage Conditions: Store in a low-temperature refrigerator at 2-8°C.

Test member :

Verifier :