

Technical Data Sheet
prePGS 1:Poly (glycerol sebacate) prepolymer (9.000 \mp 1.000 Mw (g/mol))
Properties

Form : prepolymer
Full Name : Poly(glycerol sebacate)

Preparation: Step-growth Polymerization
Particle Size : MW of < 10.000 (g/mol)

Structure : Linear polymeric chains

Product Description

PrePGS is group of an uncrosslinked polymeric chains with the molecular weight <10.000, which consists of glycerol and sebacic acid bound with an ester bond (1).

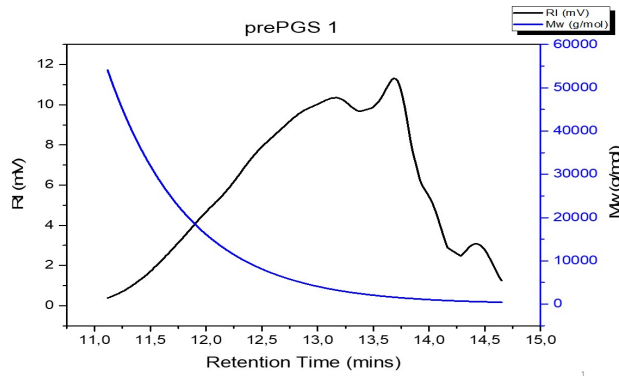
Application areas:

Application areas of PGS widely varies within pharmacy, chemistry and regenerative medicine due to their biocompatibility, biodegradability, transparency and high elasticity properties (2).

Storage conditions: Under vacuum at room temperature

Packaging : 2 ml, 5 ml, 10 ml

Quality Control



Gel permeation chromatography (GPC) analysis

“Analysis Certificate” containing FTIR, NMR and molecular weight distribution analysis would be provided with the product upon request.

References :

(1) Wang, Y., Ameer, G., Sheppard, B. *et al.* A tough biodegradable elastomer. *Nat Biotechnol* 20, 602–606 (2002).

<https://doi.org/10.1038/nbt0602-602>

(2) Loh, X. J., Abdul Karim, A., & Owh, C. (2015). Poly(glycerol sebacate) biomaterial: synthesis and biomedical applications. In *Journal of Materials Chemistry B* (Vol. 3, Issue 39, pp. 7641–7652). Royal Society of Chemistry. <https://doi.org/10.1039/c5tb01048a>