

**Technical Data Sheet**  
**prePGS 2: Poly (glycerol sebacate) prepolymer (< 40.000 Mw (g/mol))**  
**Properties**

**Form :** prepolymer  
**Full Name :** Poly(glycerol sebacate)

**Preparation:** Step-growth Polymerization  
**Particle Size :** MW of < 40.000 (g/mol)  
**Structure :** Linear polymeric chains

**Product Description**

PrePGS is group of an uncrosslinked polymeric chains with the molecular weight <40.000, which consists of glycerol and sebacic acid bound with an ester bond (1).

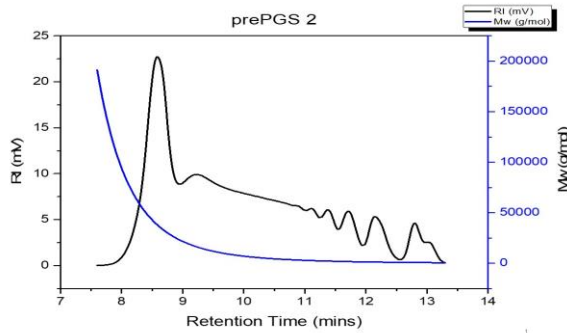
**Application areas:**

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>