

# SMALP Copolymers

## 140, 200, 300, 140-1, 502-E\*

aqueous polymer solutions designed for biomedical research

### product information

The SMALP products 140, 200, 300, and 140-1 are aqueous solutions of SMA polymer salts or derivatives. The aqueous polymer solutions are ready-to-use products specifically designed for biomedical research purposes.

### application background

The SMALP products have been developed for biomedical purposes, in particular, for the solubilization of (biological) lipid membranes and isolation and purification of integral membrane proteins.

### recommended use

The SMALP products have been specifically formulated as ready-to-use products. The solutions can be added directly to whole cell extracts and lipid membrane suspensions in buffer. These products can be used primarily for all membrane hosts, e.g. bacteria, yeast, and human cells among others. After addition of the solution, incubation under stirring requires around 1-2 hours before protein purification (e.g. affinity chromatography, etc).

### recommended concentration

Mix the solutions as supplied in the membrane suspension to an overall concentration between 1 - 5% w/w of the SMALP solution to the total solution. The recommended use and concentration can be used as an indication. Optimal conditions must be determined experimentally.

### product properties

- research quality product
- excellent dispersing qualities
- ready-to-use solutions
- high polymer content
- very low VOC
- low solution viscosity
- good thermal stability
- freeze-thaw stable

### storage

Store in cool and dry places, protected from direct sunlight. Long-term storage is recommended at 4° C. In case of turbidity at low temperature, heat up to 30° C and stir. After storage at low temperature, viscosity might have increased. Warm to room temperature to decrease viscosity again. Do not store in the presence of oxidizing or acidic materials.

### health and safety

All health-related risks are mentioned in the Safety Data Sheet (SDS). Please contact [ask@aurorium.com](mailto:ask@aurorium.com) to receive the SDS.

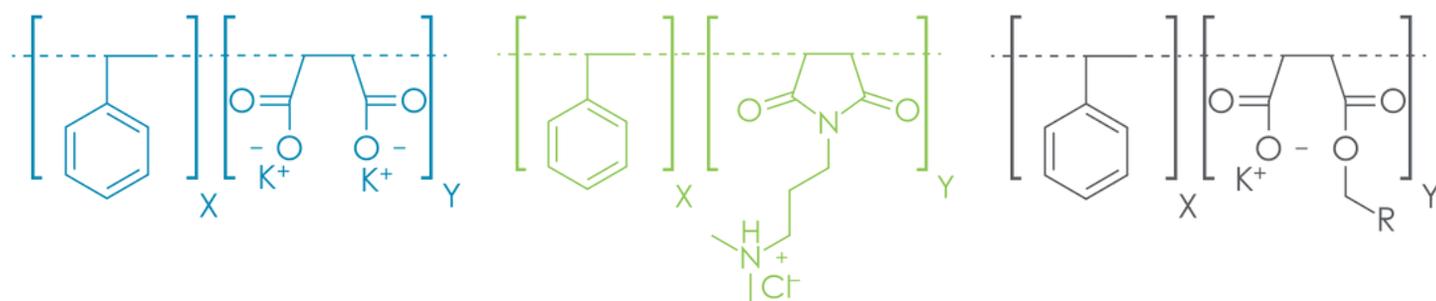
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### typical characteristics

	unit	SMALP 140	SMALP 200	SMALP 300	SMALP 140-1	SMALP 502-E*
Polymer styrene-to-maleic anhydride ratio	n:m	1.4:1	2:1	3:1	1.4:1	1.4:1
Molecular weight (Mw)	Da	5.000	6.500	10.000	5.000	5.000
Dry solids content	% w/w	≥ 20.0	≥ 20.0	≥ 20.0	≥ 20.0	≥ 20.0
Solvent		water	water	water	water	water
pH		6.0	7.5	8.0	water	6.0
Absolute viscosity	mPa·s	≤ 5.000	≤ 5.000	≤ 5.000	water	≤ 5.000
Color		amber	yellowish	colorless	water	brownish
Odor		odorless	odorless	odorless	water	odorless



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