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# Schircks Laboratories

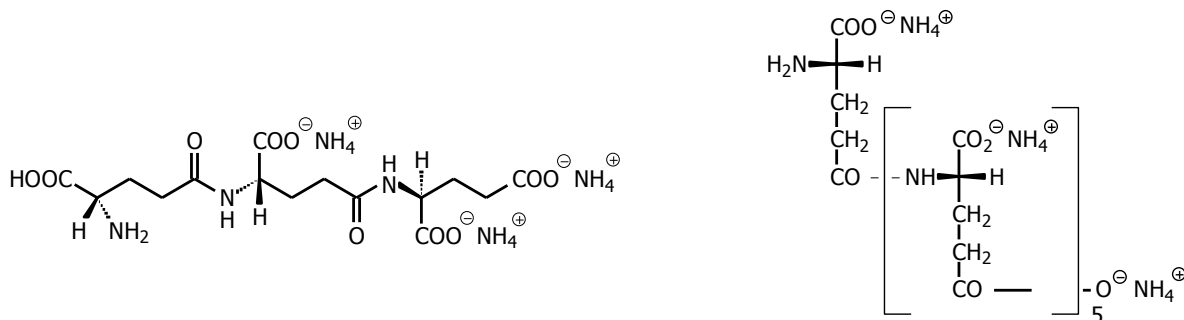
## DATA SHEET

### Polyglutamates

#### Product No.'s 16.803 and 16.806

Abbreviations used: Glu<sub>3</sub> and Glu<sub>6</sub>

We have not prepared data sheets for each of the Glu<sub>n</sub> but we have data sheets for two members of the group.



**Glu<sub>3</sub> ammonium salt**  
 $C_{15}H_{20}N_3O_{10}(NH_4)_3$

**Product no.16.803**  
 MW 456.5

**Glu<sub>6</sub> ammonium salt**  
 $C_{30}H_{38}N_6O_{19}(NH_4)_6$

**Product no.16.806**  
 MW 894.9

Product number		16.803	16.806
Description		white powder	white powder
Solubility in H <sub>2</sub> O		very soluble	very soluble
pH of a 1 mM solution in water		5.0	6.3
HPLC Conditions	column	Phase Sep Partisil SAX, 4.6x250 mm	Phase Sep Partisil SAX, 4.6x250 mm
	eluant	50 mM Na <sub>2</sub> HPO <sub>4</sub> pH 3.0	400 mM NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> + KCl pH 4.0
	flow rate	1.5 ml/min	2.0 ml/min
	wavelength	215 nm	215 nm
	solution	0.5 mg/ml H <sub>2</sub> O	0.9 mg/ml H <sub>2</sub> O
Purity: HPLC		97.5% - 99.0%	97.5% - 99.0%
Stability	powder	Glu <sub>n</sub> substances are very hygroscopic.	
	solutions	1 mM solution in water left open degrades at 0.87% / 3 days.	1 mM solution in water left open degrades at 0.17% / 3 days.
Storage		Keep the powder dry in vials at -20°C or colder. These compounds can be transported without the use of dry ice. In tightly closed vials they are stable at ambient temperature for several weeks.	
Safety Information		Glu <sub>n</sub> are regarded as safe for laboratory use. We are not aware of any special precautions required for handling these products. Our products are sold for laboratory use only.	
Literature		1)Please refer to entries for folic acid and methotrexate in the Merck Index. 2)Godwin H.A., et al, The Synthesis of Biologically Active Pteroyl oligo-γ-L-glutamates (Folic Acid Conjugates). J. Biol. Chem., <u>247</u> , (1972), 2266-2271 (UV-absorption).	

Further data sheets can be found on our website [www.schircks.ch](http://www.schircks.ch)

The information given in this publication is based on our current knowledge and experience. It does not relieve users or processors from carrying out their own precautions and tests.