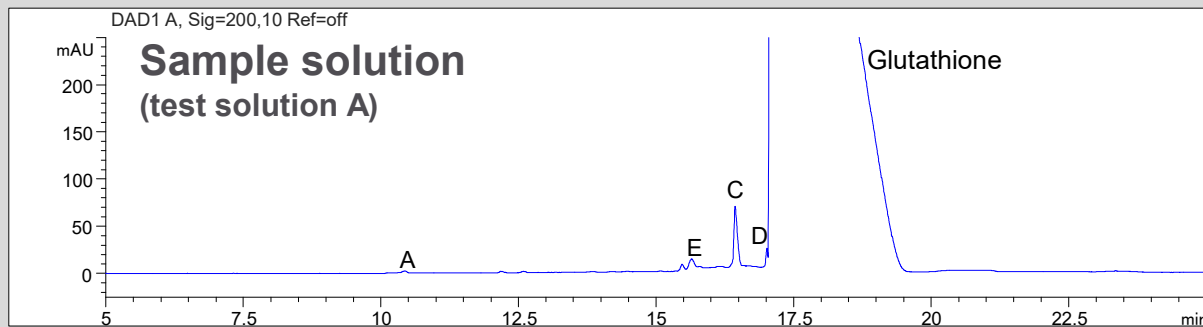
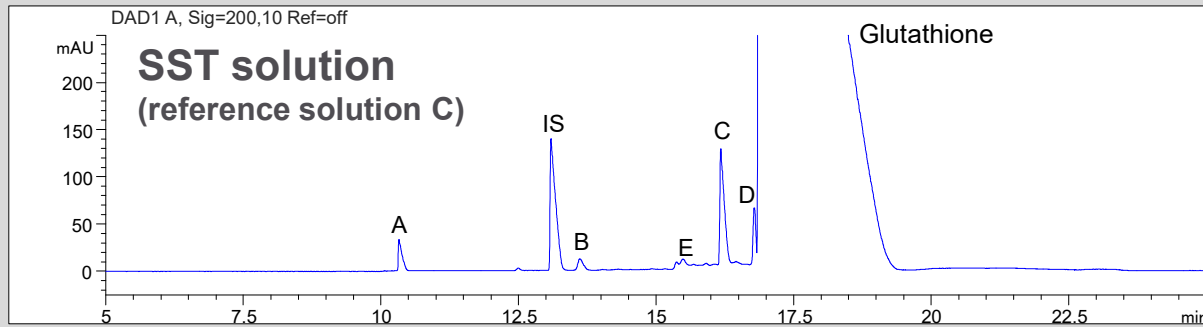


# Purity of Glutathione (GSH) according to European Pharmacopoeia, Monograph-No.: 1670



Impurity A (L-cysteinylglycine), Impurity B (L-cysteine), Impurity C (L-glutathione oxidized), Impurity D (L- $\gamma$ -glutamyl-L-cysteine), Impurity E (unknown structure), IS: Internal Standard (L-phenylalanine)

## Specification:

Impurity	Substance	Specification
A	L-cysteinylglycine	$\leq 0.5\%$
B	L-cysteine	$\leq 0.5\%$
C	L-glutathione oxidized	$\leq 1.5\%$
D	L- $\gamma$ -glutamyl-L-cysteine	$\leq 1.0\%$
E	Unknown structure	$\leq 0.5\%$
	largest unspecified impurity	$\leq 0.2\%$
	sum of all impurities	$\leq 2.5\%$
	disregard limit	0.05%

- **Mode: CZE**
- **Electrolyte: Phosphate 50 mM, pH 1,8 (adjusted with 85% H<sub>3</sub>PO<sub>4</sub> to fulfill the SST)**
- **Capillary: fused silica, 75  $\mu$ m ID, 64 cm total length**
- **Separation: 25°C, 20 kV**
- **Injection: hydrodynamic**
- **Detection: direct UV, 200 nm**