

PARAROSANILINE

Hexazonium Salt

The Hexazonium Salt of Pararosanine is not commercially available because it is unstable. It may be readily prepared using the following procedure¹:

Stock Solution (A):	4 grams	Pararosanine Hydrochloride, Product No. P-3750	Stock Solution (B):	4 grams	Sodium Nitrite, Product No. S-2252
	100 ml	2N Hydrochloric Acid Product No. 251-2		100 ml	Distilled Water
		Mix to dissolve			Mix to dissolve
		Stable up to three weeks at room temperature ² .			Stable up to one week, when stored in refrigerator ³ .

Immediately before use:

- Mix equal volumes of (A) and (B)
- Adjust pH as desired
- Filter if necessary

NOTE: The fresh Hexazonium Salt is stable enough at acid pH to permit tissue incubation at room temperature for 60 minutes without changing the incubation medium¹.

¹T. Barka, Nature, **189**, 248-9, 1960

²D. Thybush, et al., A. Histochem, **23**, 127-30, 1966

³M. Hayashi, et al., J. Histochem. Cytochem., **12**, 293-7, 1964

Applications and References:

Determination of acid phosphatase: T. Barka, Nature, **187**, 248-9, 1960; G.H.J. Lewis, et al., J. Microsc., **126**, 183-9, 1982; G.T.D. Sanders, et al., Clin. Chem. Acta, **89**, 421-7, 1978; T. Barka and P.J. Anderson, J. Histochem. Cytochem., **10**, 741-53, 1962.

Determination of non-specific esterase: D. Thybush, et al., A. Histochem., **23**, 127-30, 1966.

Determination of β -glucuronidase: M. Hayashi, et al., J. Histochem. Cytochem., **12**, 293-7, 1964.

Determination of β -D-N-acetylglucosaminidase: R. Gossrau, Histochem., **55**, 159-72, 1978.

Determination of peptidase: Z. Lojda, Histochem., **44**, 323-35, 1975 and R. Gossrau, ibid., **54**, 311-30, 1977.

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