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**Product Data Sheet**

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Product Name: Hydroxy naphthol blue disodium

Cat. No.: GC67465

**Chemical Properties**

Cas. No. 165660-27-5

Formula  $C_{20}H_{12}N_2Na_2O_{11}S_3$ 

M.Wt 598.49

Solubility

Storage

Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Hydroxy naphthol blue disodium, an azo dye, is a metal indicator for calcium and a colorimetric reagent for alkaline earth metal ions ( $\lambda_{max} = 650 \text{ nm}$ ). In the pH range between 12 and 13, the solution of the indicator is reddish pink in the presence of calcium ion and to deep blue in the presence of disodium EDTA<sup>[1]</sup>.

[1]. Motoki Goto, et al. Colorimetric detection of loop-mediated isothermal amplification reaction by using hydroxy naphthol blue. *Biotechniques*. 2009 Mar;46(3):167-72.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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