

Product Data Sheet

Product Name: Ready-to-Use Giemsa Staining Solution

Cat. No.: GC81419

Chemical Properties

Cas. No.

Formula

M.Wt

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

Ready-to-Use Giemsa Staining Solution is a ready-to-use Romanowsky-type staining solution that can be used for staining blood and cell smears, bacteria, chromosome banding, parasites, and other

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

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specimens. Ready-to-Use Giemsa Staining Solution stains blood smears to reveal blood parasites including Plasmodium, microfilariae, and trypanosomes. Ready-to-Use Giemsa Staining Solution enables morphological identification of blood cells, and can also stain fixed cells to observe muscle cell nuclei, distinguish myotubes from myoblasts, and quantitatively analyze the differentiation status of myoblasts [1] [2] [3].

In Vitro, Ready-to-Use Giemsa Staining Solution acts on methanol-fixed myotubes to distinguish multinucleated myotubes from mononuclear myoblasts for myogenesis quantification^[1]. Ready-to-Use Giemsa Staining Solution can stain multiple blood parasites including Schüffner's dots of Plasmodium vivax/ Plasmodium ovale, microfilariae, and trypanosomes^[2]. Ready-to-Use Giemsa Staining Solution incubates on methanol-fixed thick blood smears for 20-30 minutes, which can lyse red blood cells to expose Plasmodium and clearly present the morphological features of the parasites^[3]. Ready-to-Use Giemsa Staining Solution enables rapid screening of malaria parasites and displays characteristic morphological markers of malaria parasites^[3].

References:

- [1]. Levitt DE, et al. HEMA 3 Staining: A Simple Alternative for the Assessment of Myoblast Differentiation. Current protocols in stem cell biology. 2019 Dec;51(1):e101.
- [2]. Petithory JC, et al. Rapid and inexpensive method of diluting Giemsa stain for diagnosis of malaria and other infestations by blood parasites. J Clin Microbiol. 2005 Jan;43(1):528.
- [3]. Houwen B, et al. Blood film preparation and staining procedures. Clinics in laboratory medicine. 2002 Mar;22(1):1-14, v.

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