

Alsever solution

Alsever solution can be directly added during the blood withdrawal to the freshly obtained blood. The solution acts anticoagulant and stabilizes erythrocytes.

Product	Cat. No.	Unit
Alsever solution pH value 6.1 Storage temperature: RT (room temperature)	L 6015	500 ml

Formulation

Tab. 38: Composition of Alsever solution

Substance	Concentration (mg/l)
NaCl	4200
Sodium-citrate·2H ₂ O	8000
Citric acid·H ₂ O	550
D-glucose	20500

HEPES buffer

HEPES (hydroxyethyl-piperazineethane-sulfonic acid buffer) is an organic buffer and very stable. In the physiological area HEPES has an excellent buffer capacity in a pH range of 7.2 to 7.6. HEPES is apt for all cell culture systems with a high proliferation and cell density. On HEPES buffered cell culture media, the incubation in a CO₂ incubator is not necessary.

Product	Cat. No.	Unit
1 M HEPES buffer (50x) Storage temperature: RT (room temperature)	L 1613	100 ml
HEPES (powder) MG 238.3 Storage temperature: RT	L 1603	100 g

How to use HEPES buffer:

- dissolve powder and adjust pH at 7.2 with sodium hydroxide
- add 10–20 ml of HEPES buffer per litre of medium (for very delicate cell cultures, use only 10 ml)
- a concentration of 20 mM HEPES requires 20 ml/l medium, for 25 mM use 25 ml/l
- if NaHCO₃ is required, only add 10 %