bio-techne
TOCRIS

Print Date: Oct 27th 2025

Certificate of Analysis

www.tocris.com

Product Name: **ACSF (Artificial Cerebrospinal Fluid)** **Catalog No.: 3525** **Batch No.: 119**

IUPAC Name: Artificial cerebrospinal fluid

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	solution
Storage:	Store at RT

2. ANALYTICAL DATA

Purity:	99.5%
pH:	7.2
Osmolarity:	279 mOsm/L
Filter Integrity:	Pass

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **ACSF (Artificial Cerebrospinal Fluid)** **Catalog No.: 3525** **Batch No.: 119**

IUPAC Name: Artificial cerebrospinal fluid

Description:

Artificial cerebrospinal fluid (ACSF) is commonly used to maintain the oxygen supply, osmolarity and buffer pH of isolated neurons and brain slices in electrophysiology experiments. ACSF closely matches the electrolyte concentrations of cerebrospinal fluid and is prepared from high purity water and analytical grade reagents. Microfiltered and sterile. Final ion concentrations (in mM): Na^+ 150; K^+ 3.0; Ca^{2+} 1.4; Mg^{2+} 0.8; P 1.0; Cl^- 155.

Physical and Chemical Properties:

Physical Appearance: solution

Storage: Store at RT

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Byun *et al* (2012) Induction of neuronal death by microglial AGE-albumin: implications for Alzheimer's disease. PLoS One ***7*** e37917. PMID: 22662249.