

## Certificate of Analysis

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**Product Name:** ACSF

**Catalog No.:** 3525

**Batch No.:** 37

**IUPAC Name:** Artificial cerebrospinal fluid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** Colourless liquid

**Storage:** Store at RT

### 2. ANALYTICAL DATA

**pH:** 7.18

**Filter integrity:** Passes

**Osmolarity:** 279 mOsm/L

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** ACSF

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IUPAC Name: Artificial cerebrospinal fluid

**Description:**

Artificial cerebrospinal fluid (aCSF) commonly used when sampling from brain interstitial fluid. Closely matches the electrolyte concentrations of CSF 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 1.4; Mg 0.8; P 1.0; Cl 155.

**Physical and Chemical Properties:**

Physical Appearance: Colourless liquid

**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. Our standard recommendations are:

**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.

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