



SDS

SDS-AS-1260

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SAFETY DATA SHEET

King's B Medium Base | Catalog No. AS-1260

Prepared in accordance with GHS classification and labelling requirements (Australian regulatory format, Safe Work Australia)

Section 1: Identification

Product Name	King's B Medium Base
Also Known As	Pseudomonas Agar F, Flo Agar, King's Medium B, Fluorescein Agar
Catalog Number	AS-1260
Recommended Use	Laboratory differential culture medium for presumptive Pseudomonas identification
Uses Advised Against	Direct human or animal administration; definitive diagnosis without confirmatory testing
Manufacturer	AuSaMicS Pty Ltd, Melbourne, Victoria, Australia
Emergency Telephone	Refer to company contact details / Poisons Information Centre 13 11 26 (Australia)

Section 2: Hazard(s) Identification

Classification: This dehydrated culture medium is not classified as hazardous according to GHS criteria based on the properties of its individual components (peptone, dipotassium phosphate, magnesium sulfate, agar) at the concentrations present. The dry powder may cause mechanical/dust irritation to eyes, skin, and the respiratory tract on direct or prolonged exposure. Glycerol, added during preparation, is a low-hazard humectant liquid. The medium presents no chemical hazard once prepared and sterilised, but becomes a potential biological hazard after inoculation and incubation with microorganisms — standard microbiological biosafety practices apply at that stage, particularly when culturing clinical *Pseudomonas aeruginosa* isolates (Risk Group 2).



- Signal Word: Warning (dust irritation potential only; confirm against current supplier SDS for individual raw materials)
- Hazard Statements: May cause mild eye, skin, or respiratory irritation from dust (dehydrated powder form)

- Precautionary Statements: Avoid generating dust; wash hands after handling; wear eye protection when weighing powder; use appropriate biosafety containment when culturing clinical isolates

Section 3: Composition / Information on Ingredients

Component	Function	Approx. Concentration
Peptone (mixed)	Nitrogen/carbon source; phosphorus for pigment induction	Major component
Dipotassium phosphate	Phosphorus source; buffering agent	Minor component
Magnesium sulfate	Cation cofactor for fluorescein synthesis	Minor component
Bacteriological agar	Solidifying agent	Major component
Glycerol (added by user)	Carbon source	10–15 mL/L, added during preparation

Section 4: First-Aid Measures

- Eye contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- Skin contact: Wash with soap and water.
- Inhalation: Remove to fresh air if dust is inhaled during weighing/handling.
- Ingestion: Rinse mouth with water. Seek medical attention if discomfort occurs.

Section 5: Fire-Fighting Measures

- Suitable extinguishing media: Water spray, dry chemical, carbon dioxide, foam
- Unsuitable media: None known
- Hazardous combustion products: Oxides of carbon and nitrogen

Section 6: Accidental Release Measures

- Personal precautions: Avoid dust formation; wear appropriate PPE
- Environmental precautions: Avoid release to waterways
- Containment/clean-up: Sweep or vacuum spilled powder; avoid generating dust; if the medium has been inoculated and incubated, treat as biological waste and autoclave before disposal

Section 7: Handling & Storage

- Handling: Weigh dehydrated powder with adequate ventilation; avoid dust formation; use aseptic technique after preparation and sterilisation
- Storage (dehydrated): Store at 10–30°C, dry, protected from moisture, tightly closed
- Storage (prepared): Store at 2–8°C, protected from light; discard if contaminated or discoloured

Section 8: Exposure Controls / Personal Protection

- Exposure limits: No specific workplace exposure standard established for this product in Australia; apply general nuisance-dust controls
- Engineering controls: Local exhaust ventilation recommended when weighing dehydrated powder
- PPE: Safety glasses, gloves, and dust mask recommended during powder handling; Biosafety Level 2 (BSL-2) practices, including a biosafety cabinet, recommended when culturing clinical *Pseudomonas* isolates on the prepared medium

Section 9: Physical & Chemical Properties

Appearance (dehydrated)	Free-flowing powder
Appearance (prepared)	Light amber, clear
Odour	Faint, characteristic
Final pH (25°C)	7.2 ± 0.2
Solubility	Disperses/dissolves in water on heating

Section 10: Stability & Reactivity

- Chemical stability: Stable under recommended storage conditions
- Incompatible materials: Strong oxidising agents
- Hazardous decomposition products: Oxides of carbon and nitrogen upon combustion

Section 11: Toxicological Information

The individual components of this medium (peptone, mineral salts, agar, glycerol) are common laboratory-grade materials with low acute toxicity. Not classified as a carcinogen, mutagen, or reproductive toxicant based on available data for the formulation as supplied. Once inoculated and incubated — particularly with clinical *Pseudomonas aeruginosa* isolates, a Risk Group 2 opportunistic pathogen — the prepared medium should be handled according to the institutional biosafety level applicable to the organisms cultured.

Section 12: Ecological Information

- Persistence/degradability: Components are generally biodegradable
- Bioaccumulation: Not expected to bioaccumulate
- Aquatic toxicity: Low hazard expected from unused medium; avoid unnecessary release of inoculated cultures to the environment

Section 13: Disposal Considerations

Dispose of unused dehydrated medium in accordance with local, state, and federal (Australian) regulations. Inoculated/used prepared medium must be autoclaved or otherwise inactivated before disposal, consistent with the biosafety level of the organisms cultured, and disposed of via a licensed biological waste contractor where applicable.

Section 14: Transport Information

UN Number	Not regulated as a dangerous good for transport
Proper Shipping Name	Not applicable
Transport Hazard Class	Not applicable
Packing Group	Not applicable

Section 15: Regulatory Information

Components are common laboratory-grade materials listed on the Australian Inventory of Industrial Chemicals (AIIC) where applicable. Classified and labelled in accordance with the Globally Harmonized System (GHS) as adopted under the Work Health and Safety (WHS) Regulations. Laboratories culturing clinical isolates on this medium must additionally comply with the Australian/New Zealand Standard AS/NZS 2243.3 (Safety in Laboratories — Microbiological Safety and Containment) and relevant institutional biosafety requirements.

Section 16: Other Information

This Safety Data Sheet has been prepared by AuSaMicS Pty Ltd based on currently available data for the unused, dehydrated medium and is believed to be accurate as of the date of issue. It does not address the biosafety requirements of specific microorganisms cultured on this medium, which remain the responsibility of the end user and their institutional biosafety committee.

Revision: 1.0

This Safety Data Sheet is provided as a general reference summary and reflects information believed to be accurate at the time of preparation. AuSaMicS Pty Ltd makes no warranty, express or implied, regarding its completeness or accuracy for any particular

use. Users must independently verify regulatory and biosafety compliance applicable to their jurisdiction, institution, and the specific organisms cultured before use.