



TECHNICAL DATA SHEET

AS-1233 | Fluid Thioglycollate Medium (FTM)
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Fluid Thioglycollate Medium (FTM) — Technical Data Sheet

Catalogue Number: AS-1233

Product Identification

Product Name	Fluid Thioglycollate Medium (FTM)
Catalogue Number	AS-1233
HS Code	3821.00.00
Medium Type	Enriched reducing semi-solid liquid medium — aerobic and anaerobic
Physical Form	Dehydrated powder
Colour (powder)	Cream to light beige with faint pink tint from resazurin
Colour (prepared)	Light straw/amber — colourless to faint pink at surface
Pharmacopoeial Equivalents	USP <71>, BP 2023, EP 2.6.1 — Fluid Thioglycollate Medium
Regulatory Compliance	FDA-BAM, APHA, ISO 21149
Also known as	FTM, Thioglycollate Broth, Fluid Thioglycollate Broth, THIO
Related product	Thioglycollate Medium Brewer Modified (AS-1364) — lower dextrose, lower agar

Composition (per litre of prepared medium)

Ingredient	CAS Number	Function	Amount (g/L)
Pancreatic Digest of Casein	73049-73-7	Nitrogen, peptides, amino acids	15.0
Yeast Extract	8013-01-2	Vitamins, growth factors, nucleotides	5.0
Dextrose (D-Glucose)	50-99-7	Carbon/energy source, mild reductant	5.5
L-Cystine	56-89-3	Secondary reducing agent, sulfur source	0.5



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Sodium Chloride	7647-14-5	Osmotic balance	2.5
Sodium Thioglycollate	367-51-1	Primary reducing agent — O ₂ scavenger	0.5
Agar (semi-solid)	9002-18-0	O ₂ gradient maintenance; semi-solid	0.75
Resazurin (sodium salt)	62758-13-8	Redox indicator (colorimetric)	0.001

Total: ~29.25 g/L | Final pH: 7.1 ± 0.2 at 25 °C

Physical & Chemical Specifications

Appearance (powder)	Cream to light beige homogeneous powder
Appearance (prepared)	Light straw/clear to faintly pink at surface only (≤30%)
pH (prepared medium, 25 °C)	7.1 ± 0.2
Loss on Drying (moisture)	≤ 5.0%
Solubility	Completely soluble with gentle heating
Agar concentration	0.75 g/L (semi-solid — fluid, not gel)
Resazurin indicator	0.001 g/L — colourless (reduced/anaerobic) ↔ pink (oxidised/aerobic)
Reducing capacity	Dual system: sodium thioglycollate + L-cystine
Pharmacopoeial grade	USP <71>, BP 2023, EP 2.6.1 — Fluid Thioglycollate Medium

Performance Specifications

Organism	ATCC No.	Incubation	Expected Result	Regulatory Ref.
Clostridium sporogenes	11437	30–35 °C, 5 days	Growth — lower zone turbidity	USP <71> / EP 2.6.1
Staphylococcus aureus	6538	30–35 °C, 3 days	Growth throughout	USP <71> / EP 2.6.1



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<i>Pseudomonas aeruginosa</i>	9027	30–35 °C, 3 days	Growth at surface	USP <71> / EP 2.6.1
<i>Bacillus subtilis</i>	6633	30–35 °C, 5 days	Growth at/near surface	USP <71> / EP 2.6.1
<i>Candida albicans</i>	10231	20–25 °C, 5 days	Growth throughout	USP <71>
<i>Aspergillus brasiliensis</i>	16404	20–25 °C, 5 days	Surface growth / pellicle	USP <71>
<i>Bacteroides fragilis</i>	25285	35–37 °C, 48–72 h	Growth — lower zone	Clinical / EP
<i>Clostridium perfringens</i>	13124	35–37 °C, 48 h	Growth — lower zone	FDA-BAM / EP

Key Differences — FTM vs Standard Thioglycollate

Dextrose 5.5 g/L (vs 2.5 g/L)	Higher energy source — broader organism support including anaerobic fermenters and slower-growing species
Agar 0.75 g/L (vs 0.5 g/L)	Slightly firmer semi-solid — better-defined oxygen gradient; still fully fluid for pipetting
NaCl 2.5 g/L (vs 5.0 g/L)	Lower salt — better compatibility with salt-sensitive organisms and osmotically fragile cells
Pharmacopoeial standard	This formulation is the exact FTM described in USP <71>, BP, EP — primary choice for regulatory sterility testing

Storage & Stability

Dehydrated powder	10–30 °C, tightly sealed, dry, original container
Shelf life	3 years from manufacture (labelled expiry)
Prepared broth	15–30 °C in sealed containers, use within 4 weeks
If refrigerated	2–8 °C — warm to room temperature before use
Discard if	Pink >30%, turbid before inoculation, precipitate, or evaporated

Regulatory & Quality Standards



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Pharmacopoeial	USP <71> Sterility Tests; BP 2023; EP 2.6.1
Regulatory	FDA-BAM; APHA Standard Methods; ISO 21149 (Cosmetics)
Performance testing	Per USP <71> / EP 2.6.1 reference organisms
Country of Manufacture	Australia

Disclaimer

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