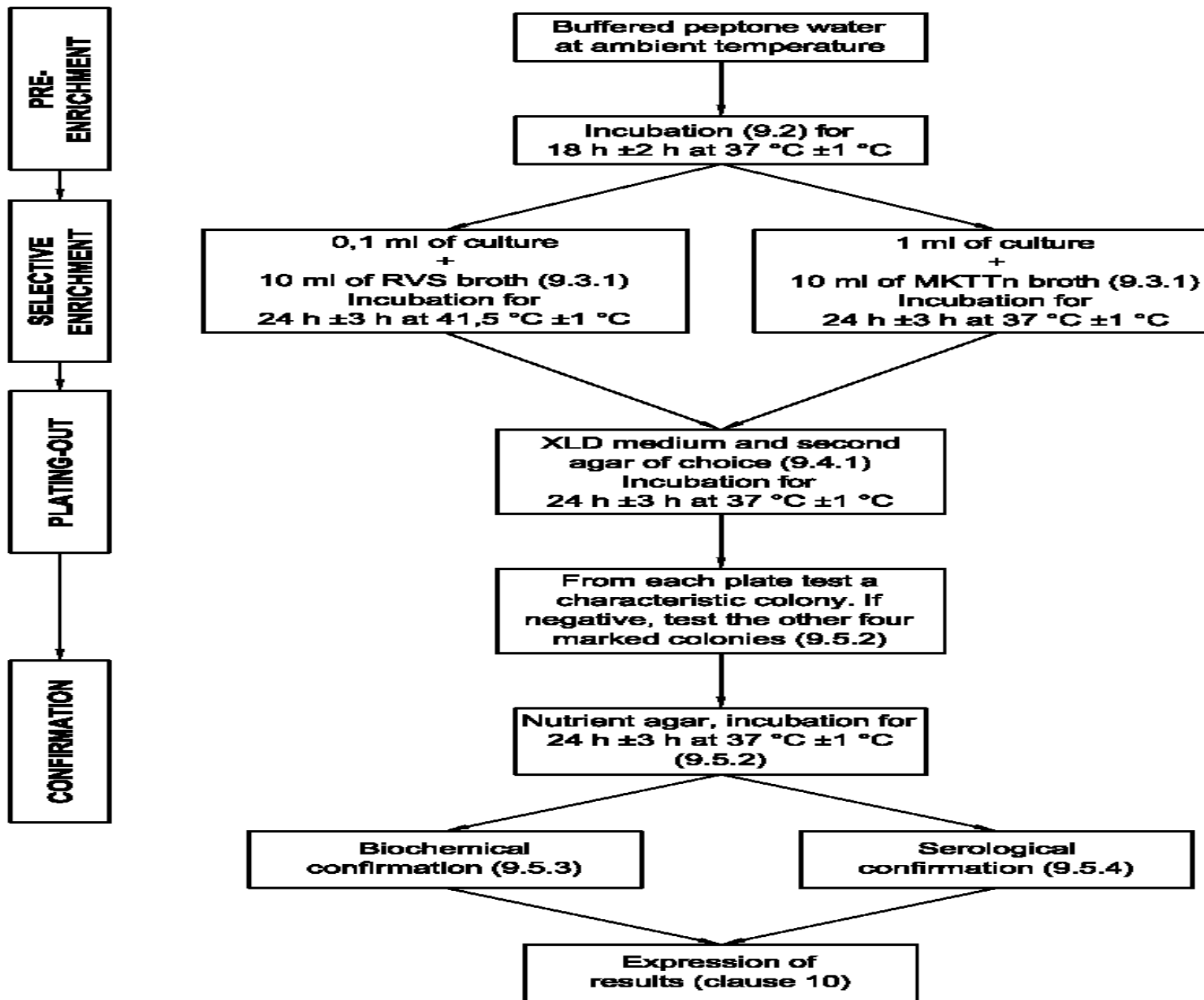


ISO 6579 : 2002

- Microbiology of food and feeding stuffs
- Warning : great care should be taken in the manipulation and the disposal of all incubated materials.
- Detection of *Salmonella* spp.
- Scope : including *Salmonella* Typhi and Paratyphi



Buffered Peptone Water : pre-enrichment

- **Mode of Action**

The broth is rich in nutrients and produces high resuscitation rates for sublethally injured bacteria and promote intense growth.

- The phosphate buffer system prevents bacterial damage due to changes in the pH of the medium.

- **Typical Composition (g/liter)**

- Enzymatic digest of casein 10.0
- Sodium chloride 5.0
- Disodium hydrogen phosphate dodecahydrate ($\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$) 9.0
- Potassium dihydrogen phosphate (KH_2PO_4) 1.5
- water

- **Preparation**

Suspend 25.5 g/l dispense into suitable containers, autoclave (15 min at 121°C).

pH: 7.2 ± 0.2 at 25°C .

The prepared broth is clear and yellowish.

Experimental Procedure first step pre-enrichment

prepare the sample :

from sample... truly representative : not damaged not changed during transport or storage

to a test portion... GBL :always keep in mind preventing cross-contamination if not 25g should be specified

Inoculate the culture medium with the sample material at least 1/10 w/w , room t° or pre heated to incubation T°

homogenise

stomacher, pulsifier...

Incubation : 16 - 20 hours at 37° +/-1°C aerobically. Quality control

Test strains

Salmonella typhimurium ATCC 14028

Escherichia coli ATCC 25922

Staphylococcus aureus ATCC 25923

Enterococcus faecalis ATCC 33186

Pseudomonas aeruginosa ATCC 27853

Streptococcus pyogenes ATCC 12344

Bacillus subtilis ATCC 6633

Growth

good / very good

good / very good

good / very good

good / very good

good / very good

good / very good

fair / good



It's up to you...