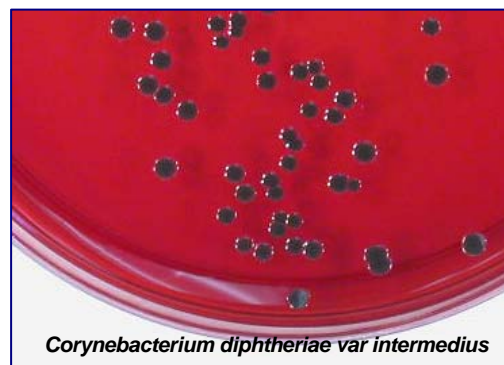


PP2064 HOYLES TELLURITE AGAR PLATE**FORMULA**

Special Peptone	23.0	gm per litre
Starch	1.0	
Sodium Chloride	5.0	
Agar No. 1	10.0	
Potassium Tellurite	0.35	
Lysed Horse blood	50.0	mL
pH 7.3 ± 0.2		

**DESCRIPTION (1)**

This medium is for the isolation of *C. diphtheriae* and as such is suitable for the routine examination of throat swabs for the diphtheria bacillus. This medium consists of a nutrient agar base supplemented with 5% lysed horse blood to enhance growth and 0.35gm per litre of potassium tellurite as a selective agent. At this concentration potassium tellurite is inhibitory to most organisms comprising normal oral flora and non-pathogenic *Corynebacteria spp.* The shape, size and colour of *C. diphtheriae* colonies on this medium may assist in the differentiation of the organism into its 3 biotypes: gravis, intermedius, and mitis.

- 1 **gravis:** Relatively large, grey/black, lustreless colonies.
- 2 **mitis:** Convex, grey/black colonies with a ground glass but glistening surface.
- 3 **intermedius:** Small, grey/black colonies with a high degree of uniformity in size.

QUALITY CONTROL

ORGANISMS: *Corynebacterium diphtheriae var gravis* MVQC 0020 (ATCC™19409)
Corynebacterium diphtheriae var intermedius MVQC 0021 (ATCC™ 14779),
S. epidermidis MVQC 0006 (ATCC™ 12228).

SAMPLE NUMBER: Sample size is determined in accordance with ASM Guidelines (2).

STERILITY: Those plates not used for bacteriological testing and other quality assurance procedures must be incubated at 30°C for 3 days after which they are examined for sterility.

INOCULUM: As described in TFS MBD WI 37, inoculate the specified test organisms onto the media using Working Culture B ($\leq 10^2$ cfu) or Working Culture A ($\geq 10^4$ cfu).

INCUBATION: 24 - 48 hours / 35°C / aerobically

EXPECTED RESULTS:

<i>C.diphtheriae var gravis</i>	4 - 5+ black colonies using Working Culture B
<i>C.diphtheriae var intermedius</i>	4 - 5+ black colonies using Working Culture B
<i>S.epidermidis</i>	<1+ inhibited using Working Culture A

ALSO CHECKED AND RECORDED

1. Batch number correct
2. Colour
3. Clarity
4. Gel strength
5. pH 7.3 ± 0.2
6. Sterility
7. Correctly Labelled - HOYLES

STORAGE

A shelf life of 8 weeks applies when this product is stored at 2° - 8°C in its original packaging.

REFERENCES

1. Bridson, E.Y. The Oxoid Manual, 9th Edition. 2006. Oxoid Limited, Basingstoke.
2. *Guidelines for Assuring Quality of Medical Microbiological Culture Media*. 1996. Media Quality Control Special Interest Group, Australian Society for Microbiology.