TML/MSH Microbiology Department	Policy #MI\TECH\28\v01	Page 1 of 2
Policy & Procedure Manual	-	
Section: Technical Manual	Subject Title: ONPG-Phenylalanine-	
	Motility Medium (ONPG-PAM)	
Issued by: LABORATORY MANAGER	Original Date: July 31, 2000	
Approved by: Laboratory Director	Revision Date: February 15, 2002	

ONPG-PHENYLALANINE-MOTILITY MEDIUM (ONPG-PAM)

Principle

This test is used to determine an organism's motility, its ability to ferment lactose and produce phenylalanine deaminase. The medium is primarily used as a screening procedure for the detection of enteric pathogens.

Reagents

ONPG-PAM tube 10% Ferric chloride

Other materials

Culture wire

Procedure

- 1. Inoculate the ONPG-PAM tube by stabbing the centre of it to the bottom of the tube.
- 2. Incubate the tube in O_2 at 35° C X 18 hours.
- 3. Read the tube for ONPG, motility and indole.
- 4. Add 2 drops of 10% ferric chloride solution and read the phenylalanine result.

Interpretation

ONPG: positive: yellow

negative: no colour change

Motility: positive: diffuse growth from line of inoculum

negative: growth does not spread from line of inoculum

Phenylalanine (PPA): positive: green

negative: yellow/brown

TML/MSH Microbiology Department	Policy # MI\TECH\28\v01	Page 2 of 2
Policy & Procedure Manual		
Technical Manual		

Quality Control

Test with control organisms each time a new batch of meda is prepared.

	ONPG	Motility	PPA
K. pneumoniae (ATCC 13883)	+	-	-
P. vulgaris (ATCC 13315)	-	+	+

References

1. Murray, PA, et al. 1999. Manual of Clinical Microbiology, 7th ed., American Society for Microbiology, Washington, D.C.