


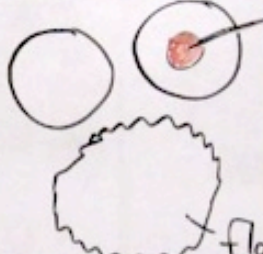

**MacCONKEY AGAR – REGULAR AND MODIFIED FORMULATIONS
USED IN MICROBIOLOGY 102**

	MacCONKEY AGAR usual formulation	MacCONKEY AGAR special Bact. 102 modification
selective agent(s)	bile salts, crystal violet, neutral red	bile salts, crystal violet, neutral red
source of amino acids which may be deaminated (alkaline rx.)	peptone, proteose peptone	peptone, proteose peptone
amino acid added for detection of decarboxylation (alkaline rx.)	none	none
fermentable sugar(s) (acid rx.)	lactose (1%)	lactose (1%)
pH indicator	neutral red: net acid = red, net alkaline = whitish/light	neutral red: net acid = red, net alkaline = whitish/light
source from which H ₂ S may be produced	none	Na thiosulfate
indicator of H ₂ S production	none	ferric ammonium citrate

14A Modified MacConkey Agar

whitish = net alk. = lactose neg.
red/pink = net acidic = lactose +

black = H₂S+

possible Colony types			
amino acid deamination	+ (over neutralized)	+	+
LACTOSE FERM.	+	-	-
H ₂ S production	-	-	+

Notes: The brown colony is labeled 'brown' and the black colony is labeled 'black'. The colony in the second column is also labeled 'flat'.