

PROCEDURE FOR THE CONTROL OF THE STRENGTH OF BLACKFAST 181NF SOLUTION

PURPOSE: To maintain the correct solution strength of Blackfast 181NF.

SCOPE: All Blackfast 181NF treatments.

RESPONSIBILITIES: The shift foremen would normally be responsible for checking the Blackfast 181NF solution prior to the commencement of each each shift or Blackfast 181 operation.

- PROCEDURE:
- 1 Take a 10ml sample of solution from the Blackfast tank with a sampling pipette. Transfer sample into a conical flask.
 - 2 Add 10 drops of Bromocresol green indicator to the conical flask swirling gently to mix. The solution turns a **GREEN** colour.
 - 3 Fill a burette with 0.04M (N/25) solution of Sodium Hydroxide (NaOH).
 - 4 Add the Sodium Hydroxide solution slowly into the conical flask until the solution just turns **BLUE**.
 - 5 An addition of 20ml indicates the working solution is satisfactory.
 - 6 The following table indicates the necessary addition to the tank solution.

SODIUM HYDROXIDE ADDED TO ACHIEVE BLUE COLOUR (ml)	BLACKFAST TO BE ADDED TO TANK (LITRES)				
	20.00	75.00	100.00	200.00	250.00
20.00	0.00	0.00	0.00	0.00	0.00
19.00	0.25	0.95	1.25	2.50	3.50
18.00	0.50	1.90	2.50	5.00	6.25
17.00	0.75	2.80	3.75	7.50	9.50
16.00	1.00	3.75	5.00	10.00	12.50
15.00	1.25	4.65	6.25	12.50	15.75
14.00	1.50	5.60	7.50	15.00	18.75
13.00	1.75	6.50	8.75	17.50	22.00
12.00	2.00	7.45	10.00	20.00	25.00
11.00	2.25	8.35	11.25	22.50	28.00
10.00	2.50	9.30	12.50	25.00	31.25
9.00	2.75	10.20	13.75	27.50	34.50

- 7 Chemicals required
Sodium Hydroxide (NaOH) 0.04M (N/25)
Bromocresol green indicator.