

NEUTRALIZING BUFFERS

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|-------------------------------------|---|---|
| APPLICATION | Neutralizing buffers are used for environmental sampling to assess the effectiveness of sanitization procedures in areas where residual disinfectants are presumably present. | |
| PRINCIPLE AND INTERPRETATION | <p>Neutralizing buffers are formulated to inactivate the traces of a wide range of disinfectant used in industries.</p> <p>Enzymatic digest of casein provides amino acids, nitrogen, carbon and minerals. Sodium chloride maintains the osmotic balance of the medium. Phosphates are the buffering agents. Lecithin neutralizes quaternary ammonium compounds. Saponin and histidine inactivate aldehydes. Sodium thiosulphate neutralizes halogen compounds. Tween 80 is effective against phenolic compounds and mercurial derivatives.</p> | |
| MEDIUM COMPOSITION* | D/E Neutralizing broth | <p>Casein peptone.....5.00 g/l Yeast extract.....2.50 g/l Dextrose.....10.00 g/l Sodium thiosulphate.....6.00 g/l Sodium thioglycollate.....1.00 g/l Sodium bisulfite.....2.50 g/l Lecithin.....7.00 g/l Bromocresol purple.....0.02 g/l Tween80.....0.50 %</p> <p>Final pH 7.6 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p> |
| | NEUTRALIZING CEN w SAPONIN | <p>Enzymatic digest of casein.....10.00 g/l Sodium chloride.....5.00 g/l Disodium hydrogen phosphate, anhydrous.....3.50 g/l Potassium dihydrogen phosphate.....1.50 g/l Lecithin.....3.00 g/l Saponin.....30.00 g/l L-histidine.....1.00 g/l Sodium thiosulphate.....5.00 g/l Tween80.....3.00 %</p> <p>Final pH 7.0 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p> |
| | NEUTRALIZING SOLUTION | <p>Lecithin.....0.70 g/l L-histidine.....1.00 g/l Sodium thiosulphate.....0.50 g/l Tween80.....0.50 %</p> <p>Final pH 7.2 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p> |

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| STORAGE | <p><i>D/E Neutralizing broth</i> NEUTRALIZING CEN w SAPONIN</p> <p>+2/+25°C</p> | | Protect from light, excessive heat, moisture and freezing | | | | | | | | | | | | | | | | |
|------------------------------|---|--|---|-------------------------|-------------------------|----------------------------|----------------------------|--|-------------|------------------------------|----------------------------|--|-------------|----------------------------|------------------------------|--|-------------|--|--|
| | <p><i>Neutralizing solution</i></p> <p>+2/+8°C. The storage or transport at +18/+25°C for 4 days or at +35/+39°C for 48 hours, don't alter in any way the performance of the product.</p> | | | | | | | | | | | | | | | | | | |
| QUALITY CONTROL | <p>Sterility control: no growth</p> | | | | | | | | | | | | | | | | | | |
| | <p>Growth Promotion Test only for NEUTRALIZING CEN w SAPONIN:</p> | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Control strain</th> <th>Medium inoculation level</th> <th>Incubation Conditions</th> <th>Recovery Specifications</th> </tr> </thead> <tbody> <tr> <td><i>E.coli</i> ATCC 8739</td> <td>≥100 viable microorganisms</td> <td>45-65 min at 22.5 ± 2.5°C then spread on TSA</td> <td>Good growth</td> </tr> <tr> <td><i>S.aureus</i> ATCC 6538</td> <td>≥100 viable microorganisms</td> <td>45-65 min at 22.5 ± 2.5°C then spread on TSA</td> <td>Good growth</td> </tr> <tr> <td><i>E.coli</i> ATCC 8739</td> <td>10-100 viable microorganisms</td> <td>16-20 h at 32.5 ± 2.5°C then spread on TSA</td> <td>Good growth</td> </tr> </tbody> </table> | Control strain | Medium inoculation level | Incubation Conditions | Recovery Specifications | <i>E.coli</i> ATCC 8739 | ≥100 viable microorganisms | 45-65 min at 22.5 ± 2.5°C then spread on TSA | Good growth | <i>S.aureus</i> ATCC 6538 | ≥100 viable microorganisms | 45-65 min at 22.5 ± 2.5°C then spread on TSA | Good growth | <i>E.coli</i> ATCC 8739 | 10-100 viable microorganisms | 16-20 h at 32.5 ± 2.5°C then spread on TSA | Good growth | | |
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| | | | | | | | | | | | | | | | | | | | |
| GENERAL WARNING NOTES | <p>Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use. Disposal of waste must be carried out according to national and local regulations in force.</p> | | | | | | | | | | | | | | | | | | |

NEUTRALIZING BUFFERS

These items are available in:

➤ **Sterile bottled D/E Neutralizing AGENT**

| MODEL | PRODUCT CODE | ORDER CODE | DESCRIPTION | SHELF LIFE |
|-------|-------------------|---|---|------------|
| 200ml | 013.1/31PSC28.200 | 013.1/31PSC28.200.10 (10 bottles/pack) | 200ml in 200ml volume, PP28 Screw cap bottle | 1 year |

➤ **Sterile bottled/test tubes NEUTRALIZING CEN w SAPONIN**

| MODEL | PRODUCT CODE | ORDER CODE | DESCRIPTION | SHELF LIFE |
|-------|-------------------|---|---|------------|
| 400ml | 013.2/32PSC28.400 | 013.2/32PSC28.400.10 (10 bottles/pack) | 400ml in 500ml volume, PP28 Screw cap bottle | 1 year |
| 9ml | 013.2/40PSC16.09 | 013.2/40PSC16.09.10 (10 tubes/pack) | 9ml volume, PP16 Screw cap test tubes | 1 year |

➤ **Sterile bottled Neutralizing solution**

| MODEL | PRODUCT CODE | ORDER CODE | DESCRIPTION | SHELF LIFE |
|-------|-------------------|---|---|------------|
| 100ml | 013.3/30PSC28.100 | 013.3/30PSC28.100.10 (10 bottles/pack) | 100ml in 100ml volume, PP28 Screw cap bottle | 1 year |

Customized filling volumes and formulations are available upon request

To receive information please

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