



Nutrient Broth No.3

M1902

Intended Use:

C "pqp/ugrgevkxg"o gf kwo "ugtngu"cu"dcug"ht"vj g"ewwng"cpf "i tqy vj "qh'o letqgti cpluo u0

Ego r qvkqp, ,

Ingredients	g/ L
HM extract #	1.000
Peptone	5.000
Sodium chloride	5.000
Yeast extract	2.000
Final pH (at 25°C)	7.4±0.2

, , Hqto wr"cf lwngf . "ucpf ctf k gf "v"uwk'r gthqto cpeg'r ctco gvgtu
%/"Gs wkxngpv"v"O gcv'gz vtcev

F k gevqpu

Uwr gpf "35"i tco u"lp"3222"o n'r wtkgf "f"kwngf "y cvgt0J gcv"ki'pgeguuct { "v"fuqng"vj g"o gf kwo "eqo r ngvgn(0F kur gpug"
kpv"wdgu"qt"rcumu"cu"t gukt gf "cpf "vgtk k g"d { "cwqerxkpi "cv'37"ndu'r tguuwtg"343AE +hqt"37"o kpwgu0

Rt kpek'rg' Cpf 'Kpvt r t gcvkqp

Nutrient Broth is a general purpose medium used for the cultivation of microorganisms that are not exacting in their nutritive requirements. An infusion of meat and peptone constitute the nutrient composition of many media. Nutrient Broth No. 3 is a basic culture medium used for maintaining microorganisms (1) and for purity checking prior to biochemical or serological testing. It is used for the cultivation and enumeration of bacteria, which are not particularly fastidious. In semisolid form it is used for maintenance or control of standard organisms. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk, etc. makes it suitable for the cultivation of fastidious organisms (2).

Peptone, HM extract and yeast extract provide nitrogen, carbon compounds, long chain amino acids, vitamin B complex and other necessary nutrients for the growth of non-fastidious organisms. Sodium chloride maintains the osmotic equilibrium of the medium.

V { r g'qh'ir geko gp"

Enkplecni'uco r ngu"/'wlpqg. 'hcegu. "gve0Hqqf "cpf "f ckt { "uco r ngu="Y cvgt"uco r ngu

Ur geko gp'Eqngv'kqp'cpf 'J cpf r'pi <'

Hqt"enkplecni'uco r ngu'hqmy "cr r tqr tlcvg"vej pls wgu'hqt"j cpf r'pi "ur geko gpu"cu'r gt"guvdrkuj gf "i wkf grkpgu"5.6-0'
Hqt'hqf "cpf "f ckt { "uco r ngu. 'hqmy "cr r tqr tlcvg"vej pls wgu'hqt"uco r ng"eqngv'kqp"cpf "r t qeguulpi "cu'r gt"i wkf grkpgu"7/9-0'
Hqt"y cvgt"uco r ngu. 'hqmy "cr r tqr tlcvg"vej pls wgu'hqt"uco r ng"eqngv'kqp. "r t qeguulpi "cu'r gt"i wkf grkpgu"cpf "hceci'ucpf ctf u": -0'
Chgt"wug. "eqpco kpcvgf "o cvgtkcu'b wu'dg"vgtk k gf "d { "cwqerxkpi "dghqtg"t kuctf kpi 0'

Y ct plpi 'cpf 'Rt gecw'kpu'

Kp" Xktq" f kci pqule" Wug0' Hqt" r tqhguukpcni' wug" qpn(0' Tgcf " yj g" ncdgn' dghqtg" qr gpkpi " yj g" eqpckpgt0' Y gct" r tqgevkxg"
i m'xgul r tqgevkxg"emvj kpi lg{ g"r tqgevkqpI" hceg" r tqgevkqp0' Hqmy " i qgf " o letqdkm' kecn' ncd" r tcevegu" yj kng" j cpf r'pi "
ur geko gpu" cpf " ewwng0' Ucpf ctf "r t gecw'kpu"cu" r gt" guvdrkuj gf "i wkf grkpgu"uj qwr" dg" hqmy gf " yj kng" j cpf r'pi "enkplecni'
ur geko gpu0'Uchgv{ "i wkf grkpgu"o c { "dg"t ghgtt gf "kp"pf k k f wcluchgv{ "f c v"lj ggu

Limitations

- 3Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

Performance and Evaluation

Rgthqto cpeg'qh"vj g"o gf kwo "ku'gzr gevdf "y j gp"wgf "cu'r gt"vj g"t k gevqpu"qp"vj g"n'cdgn'y kj k"vj g"expiry period when stored at tgeqo o gpf gf "vgo r gtcwgt0

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light amber coloured clear solution in tubes

Reaction

Reaction of 1.3% w/v aqueous solution at 25°C. pH : 7.4±0.2

pH

7.20-7.60

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50-100	good-luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50-100	good-luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 15-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Reference

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3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
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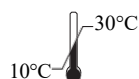
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