

UPUTSTVO ZA UPOTREBU (SRB)

Perfringens Agar Plate

Podloga se preporučuje za enumeraciju *Clostridium perfringens* iz uzoraka hrane.

Sadržaj pakovanja:

Šifra artikla (pakovanja)	Opis	Šifra primarnog pakovanja:	Broj podloga
PRM837IV20	Podloga izlivena u petri posudama od ø90	PRM8371	20
PRM837IV60			60
PRM837IV240			240
PRM837IM40	Podloga izlivena u petri posudama od ø50		40

Uputstva

Pod aseptičnim uslovima inokulisati ploču metodom površinskog zasejavanja.

Princip i interpretacija

Triptoza sulfid cikloserin agar (TSC) je originalno formulisao Harmon i aut. (1) za određivanje broja *C. perfringens* u hrani. TSC agar je dokumentovana kao jedna od najkorisnijih podloga za kvantitativan oporavak *C. perfringens* uz istovremenu supresiju rasta drugih fakultativnih anaeroba (2). Perfringens agar baza je preporučena za enumeraciju *C. perfringens* iz hrane od strane APHA (3) i ISO Committee (4).

Triptoza, pepton soje, ekstrakt kvasca, obezbeđuju azotna i ugljovodonična jedinjenja, dugačke lance amino kiseline, vitamine B kompleksa i elemente u tragovima za rast klostridija. Natrijum metabisulfit i gvožđe amonijum citrat služe kao indikator sulfidne reakcije, koja je indikovana pojavom crnih kolonija. D-cikloserin pomaže selektivnu izolaciju *C. perfringens* inhibiranjem pridružene flore.

Kontrola kvaliteta

Podaci i rezultati kontrole kvaliteta dati su u sertifikatu analize za svaku seriju.

Skladištenje i rok upotrebe

Čuvati između 15-25°C. Nakon prvog otvaranja čuvati na 2-8°C. Upotrebiti pre isteka datuma označenog na nalepnici.

Mere predostrožnosti

Ovaj proizvod ne sadrži hazardne supstance u koncentracijama koje su iznad propisanih limita određenih važećim zakonskim regulativama i zato nije klasifikovan kao opasan. Ipak, preporučeno je slediti smernice iz bezbednosnog lista za pravilnu upotrebu. Ovaj proizvod je namenjen isključivo za upotrebu u laboratorijskim uslovima, od strane profesionalno obučene osobe.

Proizvod ne upotrebljavati ukoliko je primarno pakovanje oštećeno ili proizvod ne odgovara navedenim karakteristikama.

Odlaganje otpada

Odlaganje otpada mora biti u skladu sa nacionalnim i lokalnim regulativama koje su na snazi. Svaka laboratorija je odgovorna za rukovanje i odlaganje otpada koji nastaje u toku rada.

Upotrebljeni simboli

	Držati uspravno		Kataloški broj
	Ne izlagati direktno sunčevim zracima		Lot broj
	Konsultovati uputstvo za upotrebu		Rok upotebe
	Ne koristiti više puta		Temperatura čuvanja
	Veličina pakovanja		Proizvođač

Literatura

- Harmon S. M., Kauttar D.A. and Peiler J. T., 1971, Appl. Microbiol., 22:688.
- Harmon S. M. and Kautter D.A., 1987, J. Asso. Off. Anal. Chem., 70: 994.
- Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., American Public Health Association, Washington, D.C.
- International Organization for Standardization (ISO - 7937:2004) : Microbiology of food and animal feeding stuffs-Horizontal method for the enumeration of *Clostridium perfringens*- Colony count technique
- Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition
- 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.

INSTRUCTION FOR USE

(EN)

Perfringens Agar Plate

Medium is recommended for enumeration of *Clostridium perfringens* from food.

Package contents:

Item code (packaging) REF	Description	Primary packaging code:	Number of products
PRM837IV20	Substrate poured into petri dishes of ø90	PRM837I	20
PRM837IV60			60
PRM837IV240			240
PRM837IM40	Substrate poured into petri dishes of ø50		40

Directions

Surface spread the test inoculum aseptically on the plate. After incubation, observe growth and color of colonies.

Principle And Interpretation

Tryptose Sulphite Cycloserine Agar (TSC) was originally formulated by Harmon et al (1) for the enumeration of *C. perfringens* from food. TSC Agar has been documented as one of the most useful media for the quantitative recovery of *C. perfringens* while suppressing growth of other facultative anaerobes (2). Perfringens Agar Base (M837I) is recommended for enumeration of *C. perfringens* from foods by APHA (3) and ISO Committee (4).

Tryptose, soya peptone, yeast extract, provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamin B complex and trace elements essential for clostridial growth. Sodium metabisulphite and ferric ammonium citrate act as an indicator of sulphite reduction, indicated by black coloured colonies. D-cycloserine help in the selective isolation of *C. perfringens* by inhibiting accompanying flora. Homogenized food samples can be directly streaked on the surface of plates.

Quality control

The data and results of quality control are given in the certificate of analysis for each lot.

Storage and shelf life

Storage between 15-25°C. After opening storage between 2-8°C. Use before expiry date on the label.

Warning and precautions











This product does not contain hazardous substances in concentrations that are above the prescribed limits set by applicable legislation and are therefore is not classified as hazardous. However, it is recommended to follow the guidelines provided in the safety data sheet for proper use. This product is intended for laboratory use only by a professionally trained person.

Do not use the product if the primary packaging is damaged or the product does not meet the stated characteristics.

Disposal

Waste disposal must be in accordance with national and local regulations. Each laboratory is responsible for handling and disposing of waste generated during operation.

Symbols used on labels

	This side up		Catalogue number
	Do not expose directly to sunlight		Batch code
	Consult instructions for use		Use-by date
	Do not re-use		Temperature limit
	Pack size		Manufacturer

Reference

- Harmon S. M., Kautter D.A. and Peiler J. T., 1971, Appl. Microbiol., 22:688.
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