

## UPUTSTVO ZA UPOTREBU (SRB)

### Tryptone Bile Glucuronic Agar Plate

Podloga za detekciju i enumeraciju *Escherichia coli* u namirnicama, hrani za životinje i u vodi.

#### Sadržaj pakovanja:

Šifra artikla (pakovanja)	Opis	Šifra primarnog pakovanja:	Broj podloga
PRM1591V20	Podloga izlivena u petri posudama od ø90	PRM1591	20
PRM1591V60			60
PRM1591V240			240
PRM1591M40	Podloga izlivena u petri posudama od ø50		40

#### Uputstva

Pod aseptičnim uslovima inokulisati ploču metodom površinskog zasejavanja. Nakon inkubacije posmatrati rast i boju kolonija.

#### Princip i interpretacija

Formulacija Trypton žučnog glukuronid agara je u skladu sa ISO 16649-2 (4). Trypton žučni glukuronid agar sadrži enzim  $\beta$ -D-glukuronidazu koja diferencira većinu *E.coli* vrsta od drugih koliforma. *E.coli* absorbuje hromogeni suptrat 5-bromo-4-hloro-3-indolil- $\beta$ -D-glukoronid (1). Enzim  $\beta$ -glukuronidaza cepa vezu između hromosfere 5-bromo-4-hloro-3-indolila i  $\beta$ -D-glukuronida. Kolonije *E.coli* su plavo-zelene boje (2, 3). Rast pridruženih Gram-pozitivnih bakterija je najvećim delom inhibiran upotrebom žučnih soli i visoke temperature inkubacije od 44°C.

#### Kontrola kvaliteta

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

#### Skladištenje i rok upotrebe

Čuvati između 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

- Frampton E W, Restaino L, Blaszkó L.1988. Evaluation of  $\beta$ -glucuronidase substrate 5-bromo-4-chloro-3-indolyl- $\beta$ -D-glucuronide (X-GLUC) in a 24 hour direct plating method for *Escherichia coli*. J. Food Protection 51:402-404.
- Killian M. and Bolow P 1976 Rapid diagnosis of *Enterobacteriaceae*. I. Detection of bacterial glycosidases. Acta Rattol. Microbiol Scand Sct B 84245:251.
- Ley A N, Bowers R J, Wolfe S 1988 Indocyl – $\beta$ -D-glucuronide, a novel chromogenic coli reagent for the detection and enumeration of *Escherichia coli* in environmental samples. Canadian Journal of Microbiology 34:690-693.
- International Standard ISO 16649-2: 1999. Microbiology of food and animal feeding stuffs- Horizontal method for the enumeration of presumptive *Escherichia coli*; Part 2: Colony-count technique at 44°C using 5-bromo-4-chloro-3-indolyl- $\beta$ -D-glucuronic acid

## INSTRUCTION FOR USE

(EN)

### Tryptone Bile Glucuronic Agar Plate

Medium for detection and enumeration of *Escherichia coli* in foodstuffs, animal feed and water.

#### Package contents:

Item code (packaging) REF	Description	Primary packaging code:	Number of products
PRM1591V20	Substrate poured into petri dishes of ø90	PRM1591	20
PRM1591V60			60
PRM1591V240			240
PRM1591M40	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

Formulation of Tryptone Bile Glucuronic Agar is in accordance with ISO 16649-2 (4). Tryptone Bile Glucuronic Agar contains enzyme  $\beta$ -D-glucuronidase which differentiates most *E.coli* species from other coliforms. *E.coli* absorbs chromogenic substrate 5-bromo-4-chloro-3-indolyl- $\beta$ -D-glucuronide (1). Enzyme  $\beta$ -glucuronidase splits the bond between the chromophore 5-bromo-4-chloro-3-indolyl and the  $\beta$ -D-glucuronide. *E.coli* colonies are blue green coloured (2, 3). Growth of accompanying Gram-positive flora is largely inhibited by the use of bile salts and the high incubation temperature of 44°C.

#### 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 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

- 1.Frampton E W, Restaino L, Blaszko L.1988. Evaluation of  $\beta$ -glucuronidase substrate 5-bromo-4-chloro-3-indolyl-B-D-glucuronide (X-GLUC) in a 24 hour direct plating method for *Escherichia coli*. J. Food Protection 51:402-404.
- 2.Killian M. and Bolow P 1976 Rapid diagnosis of Enterobacteriaceae I. Detection of bacterial glycosidases. Acta Rattol. Microbiol Scand Sct B 84245:251.
- 3.Ley A N, Bowers R J, Wolfe S 1988 Indocyl –B-D-glucuaoride, a novel chromogenic coli reagent for the detection and enumeration of *Escherichia coli* in environmental samples. Canadian Journal of Microbiology 34:690-693.
- 4.International Standard ISO 16649-2: 1999. Microbiology of food and animal feeding stuffs- Horizontal method for the enumeration of presumptive *Escherichia coli*; Part 2: Colony-count technique at 44°C using 5-bromo-4-chloro-3-indolyl- $\beta$ -D-glucuronic acid