



INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

GT ROAD, KALYANPUR, KANPUR - 208016

UTTAR PRADESH, INDIA

TENDER REFERENCE NO.: IITK/BSBE/AP/2021-2022/Cons-07

BID SUBMISSION END DATE- 19.01.2022

TENDER DOCUMENTS

For

“Purchase of Non-tonic Lipid like Detergents-LMNG, GDN & CHS”

Tender document

Department of Biological Sciences & Bioengineering
Indian Institute of Technology Kanpur
Kanpur (UP) 208016 India

Enquiry date: **December 22nd, 2021**

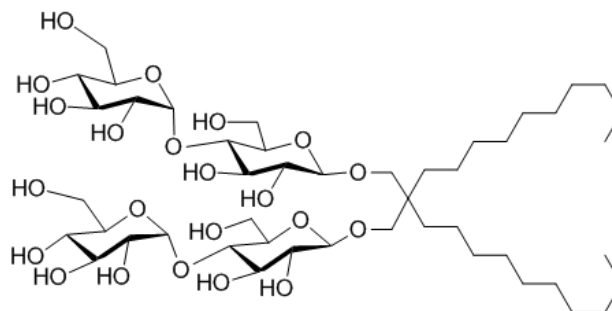
Enquiry No: **IITK/BSBE/AP/2021-22/Cons-07**

Sealed quotations are invited for **Non-tonic Lipid like Detergents-LMNG, GDN & CHS**. The detailed specification is described below.

Specifications of the Non-tonic Lipid like Detergents-LMNG, GDN & CHS:

Technical Specifications of LMNG

Quantity required: 100 grams (4 X 25 gram units)
Molecular Formula: $C_{47}H_{88}O_{22}$
CAS Number: [1257852-96-2]
Formula Weight: 1005.19
Storage Conditions: $-20^{\circ}C$
CMC: (H_2O) $\sim 0.01mM^{(1)}$ (0.001%)
Purity: $\geq 98\%$ all anomers (by HPLC analysis)
Percent Anomer: $\leq 4\%$ anomers other than 1,3-bis- β (HPLC)
pH: 5-8 (1% solution in water)
Solubility: $\geq 5\%$ (in water at $20^{\circ}C$)
Conductance: $< 100 \mu S$ (5% solution in water)
Absorbance of a 1% solution in water
260 nm: ≤ 0.15
280 nm: ≤ 0.12
340 nm: ≤ 0.1



Product Name: Lauryl Maltose Neopentyl Glycol

HAZARDS IDENTIFICATION

GHS

This substance is not classified as dangerous according to directive EC/1272/2008.

CHIP

This substance is not classified as dangerous according to directive 67/548/EEC.

LABEL ELEMENTS

Hazard statements No applicable information.

Precautionary statements No applicable information.

R & S phrases No applicable information.

COMPOSITION/INFORMATION ON INGREDIENTS

HAZARD: Lauryl Maltose Neopentyl Glycol

%WT: ≥99%

SYNONYMS: 2,2-didecylpropane-1,3-bis-β-D-maltopyranoside

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White solid Vapor

Pressure: No data available

Solubility (Water): Soluble

Percent Volatile: No data available

Chemical Formula: C₄₇H₈₈O₂₂

Technical Specifications of GDN

Quantity required: 10 grams (2 x 5 grams)

Synthetic drop-in substitute for Digitonin • **Glyco-diosgenin**

Molecular Formula: C₅₆H₉₂O₂₅CAS Number: [1402423-29-3]

Formula Weight: 1165.31

CMC: (H₂O) ~ 18 μM⁽¹⁾ (0.0021%)

Purity: ≥ 97% (by HPLC analysis)

pH: 5-8 (1% solution in water)

solubility: ≥ 10% (in water at 20°C)

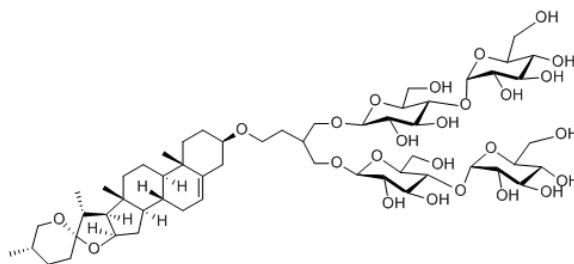
Conductance: < 100 μS (10% solution in water)

Common names or synonyms: GDN

Chemical Characterization: Steroid

Recommended use of chemical For research use only.

Restrictions on use Not intended for diagnostic or therapeutic use. Not for human and animal use.



2. HAZARD(S) IDENTIFICATION

Hazard classification Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Acute toxicity, oral (Category 5)

Acute toxicity, dermal (Category 5)

Acute toxicity, inhalation (Category 5)

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

Hazard statements H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H333: May be harmful if inhaled

H335: May cause respiratory irritation

Caution: substance not yet fully tested.

Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified R:42/43 May cause sensitization by inhalation and skin contact.

R:36/37/38 May be irritating to eyes, respiratory system and skin.

S:22 Do not breathe dust.

S:24 Avoid contact with skin.

S:36/37 Wear suitable protective clothing and gloves

Percentage of mixture containing ingredients with unknown toxicity
0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical name Glyco- diosgenin

CAS number 1402423-29-3

Weight % $\geq 97\%$

Other name(s) GDN Chemical Formula $C_{56}H_{92}O_{25}$

EC Number N/A Impurities and stabilizing additives N/A

Other components None

NOTE: Components not identified are not hazardous or are below regulatory disclosure limits.

Handling Exercise caution when handling contents of the container.

Wash with soap and water before eating, drinking, smoking, or using toilet facilities.

Use adequate ventilation at places when dust is formed

Storage Light sensitive. Air sensitive.

Technical Specifications of CHS

Quantity Required: 5 grams

Molecular Formula: $C_{31}H_{50}O_4 \cdot C_4H_{11}NO_3$

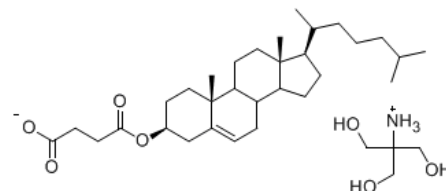
CAS Number: [102601-49-0]

Formula Weight: 607.9

Identity: IR spectrum confirms to specification.

Solubility: 1.2% in a 6% water solution of CHAPS.

Appearance: White powder, solid



Product Name: CHOLESTERYL HEMISUCCINATE, TRIS SALT

HAZARDS IDENTIFICATION GHS LABEL ELEMENTS

Not a dangerous substance or mixture Hazard statements Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341

IF INHALED: If breathing is difficult, remove victim to

fresh air and keep at rest in a position comfortable for breathing. .

CHIP

Not a dangerous substance or mixture

R & S phrases

S:22 Do not breathe dust.

S:24 Avoid contact with skin.

S:36/37 Wear suitable protective clothing and gloves

CAS NO. 102601-49-0

SYNONYMS: 5-Cholesten-3 β -ol-3-hemisuccinate

% WT: 100%

Quotations must be addressed to:

Dr. Appu Kumar Singh

Lab18

Department of Biological Sciences & Bioengineering

Indian Institute of Technology Kanpur

Kanpur 208 016, India

Email : singhappu@iitk.ac.in , nkhullar@iitk.ac.in

Terms and Conditions:

1. All equipment must be compatible with Indian electrical standards and codes. Engineering documentation on the physical sizes and weights of all major and minor components must be submitted.
2. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
3. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
4. TENDER Specific Manufacturer Authorization Form from OEM Required.
5. The Institute reserves the right of accepting or rejecting any/all quotations without assigning any reason thereof.
6. All prices should be **F.O.R.**
7. Installation by OEM is preferred.

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date: _____

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:
_____ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Declaration for Local Content

(To be given on Company Letter Head - For tender value below Rs.10 Crores)

(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)

Date: _____

To,
The Director,
Indian Institute of Technology Kanpur,
GT Road, Kalyanpur, Kanpur -208016

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: -

1. Country of Origin of Goods being offered: _____
2. We hereby declare that items offered has _____% local content.

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*“*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”*

**Yours Faithfully,
(Signature of the Bidder, with Official Seal)**