

# **AG-TA102**

According to 1907/2006/EC Article 31 (REACH)

#### **IDENTIFICATION OF SUBSTANCE / PREPARATION AND THE COMPANY** 1.

**UNDERTAKING** 

TA102 **Product name: Product code:** PSS-0120

Synonyms:

**Recommended uses:** For R&D purposes

**Supplier:** Xenometrix AG, Gewerbestrasse 25, CH-4123

Allschwil, Switzerland

**Emergency contact numbers:** Telephone: +41 61 482 14 34

### HAZARDS IDENTIFICATION

Classification: According to regulation (EC) No 1272/2008[EU-GHS/CLP]

According to EU Directives 67/548/EEC or 1999/45/EC

**Label element:** The product does not need to be labelled in accordance to

Directive 67/548/EEC

**Hazard statement(s): Precautionary statement(s):** 

Other hazards: PBT: Not data available

vPvB: Not data available

# **COMPOSITION / INFORMATION ON INGREDIENTS**

**Product:** TA102

**Description:** The contained bacterial material is stabilized for shipment up to

10 days at Room Temperature. The culture organism is used for

bacterial mutagenetic tests. [AMES-MPF assay]

CAS-No: Not data available Index-No: Not data available Other information: Not data available

#### **FIRST AID MEASURES** 4.

Eye contact: Remove contact lenses. Rinse thoroughly with plenty of water

> for at least 15 minutes. If contact lenses can't remove, continue washing. Consult a physician or an expert.

Skin contact: Remove contaminated clothing and wash before renew use.

Wash off with soap and plenty of water. Consult a physician.

Inhalation: Move person into fresh air and control respiration. If not

> breathing, give artificial respiration. Consult a physician. Never give anything by mouth to an unconscious person.

Ingestion:

Consult a physician. Do not induce forced removal of the substance from the digestive system. Rinse mouth with water. Concerned person should drink water, better milk (two

glasses at most). If nausea: Beware swallowing and

keeping in recovery position.

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	
Version-No.		Valid until Cancellation Date
3.0	RECORDS	
REC-82-07_X_3.0 MSDS PSS-01	11 TA100.docx	Page 1 of 5



### FIRE-FIGHTING MEASURES

**Extinguishing media:** Suitable: water spray; alcohol-resistant foam; Inert\_gas; dry

powder or carbon dioxide (CO<sub>2</sub>); Sand or Soil

Unsuitable: Direct water splash; simultaneous using of water

and foam

Special hazards arising from

This product is not combustible.

the substance or mixture: Fire may cause generally accumulation of: Nitrogen (NOx);

Sulfuroxides (SOx); Carbondioxides (COx); other organic

and anorganic compositions.

Advice for firefighters: Special protective equipment for firefighters

Wear self-contained breathing apparatus. Keeping a safe

distance or by wearing suitable protective clothing.

### **ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Avoid breathing vapors, mist, dust or gas.

**Environmental precautions:** Do not let product enter the drains.

Methods and materials for Ensure adequate ventilation. Avoid direct contact with the containment and cleaning up: product. Evacuate personnel to safe areas. Sweep up with

suitable material. Keep in suitable, closed containers for

disposal. Clean up affected area.

#### HANDLING AND STORAGE 7.

Handling: Handle in accordance with good laboratory hygiene and safety

> practice. This product is not combustible. Fire Fighting measures see section 5. Open container carefully. No other information

available.

Storage: Store in the original container as much as possible.

Recommended storage temperature: -80°C;

Avoid storage with Incompatible Products: Strong oxidizing

agents and acids

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION** 8.

Wear safety glasses with side protection. Eye protection:

**Skin protection:** Wear appropriate protective gloves to prevent skin exposure.

**Body protection:** Appropriate protective clothing, overalls.

No respirators required. **Respiratory protection:** 

## PHYSICAL AND CHEMICAL PROPERTIES

Dark semi-solid in a Vials Appearance:

**Odour:** Data not available / does not apply. pH: Data not available / does not apply. **Melting point:** Data not available / does not apply. Data not available / does not apply. **Boiling point:** Flash point: Data not available / does not apply. **Evaporation rate:** Data not available / does not apply. Flammability: Product is not flammable or explosive

**Self-ignition temp.:** Product is not self-igniting.

**Danger of Explosion:** Product does not present an explosion hazard.

lower explosion limit: no data available

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	
Version-No.		Valid until Cancellation Date
3.0	RECORDS	
REC-82-07 X 3.0 MSDS PSS-0113	L TA100.docx	Page 2 of 5



upper explosion limit:no data availableDecomposition Temp.:no data availableKinematic Viscosity:no data availableVapor Pressure:no data availableRelative Density (20°C):no data availableRelative Gas Density (20°C):no data available

Water Solubility (20°C): soluble

**Log KOW:** no data available

# 10. STABILITY AND REACTIVITY

**Chemical stability:** Data not available. **Conditions to avoid:** Data not available.

Incompatibilities with other

materials:

Hazardous decomposition

products:

Strong oxidizing agents and acids.

Data not available.

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50: Data not available.

LC50: Data not available.

**Skin corrosion/irritation:** May cause skin irritation.

Serious eye damage/eye

irritation:

May cause serious eye irritation.

Respiratory or skin

sensitization:

May be harmful if inhaled. May cause Headache and nausea.

Other: Data not available.

# 12. ECOLOGICAL INFORMATION

Data not available.

## 13. DISPOSAL CONSIDERATION

Waste treatment methods: Avoid discharge in environment.

**Treatment key:** Ask your local administration.

Contaminated packaging/

product:

Collect and disposal rest of substance separately. Biological material waste must disposed in accordance with appropriate

Federal, State, and local regulations. Sterilize waste and rests

before disposal.

Don't use cleaned container for other purpose and dispose.

**Special precaution:** Sterilisation: autoklave at 2bar pressure / 30 min. /

Temp.121°C

# 14. TRANSPORT INFORMATION

ADR / RID

Not classified as hazardous for transport.

### 15. REGULATORY INFORMATION

Consider the employee limitations. For this product a chemical safety assessment was not carried out.

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	
Version-No.		Valid until Cancellation Date
3.0	RECORDS	
REC-82-07_X_3.0 MSDS PSS-0111	Page 3 of 5	



# 16. ADDITIONAL INFORMATION

The product is a *Salmonella typhimurium* strain, which is designated to be used exclusively for Research & Development purposes. The TA102 strain is a derivative of the *S. typhimurium* LT2 strain [1] [2]. Further information on the genetic profile of TA102 is summarized in Table1.

**Table 1** Genetic profile of the TA102 Salmonella typhimurium strain.

Strain	Mutation	Туре	Target	Cell Wall	Repair	pKM101	pAQ1
TA102	his∆(G)8476	BP subst.	TAA	rfa <sup>-</sup>	uvrB+	<b>√</b>	<b>√</b>
rfa <sup>-</sup>	The rfa mutation leads surface, making the back						
uvrB+	uvrBgene encodes an e with uvrB+ have intact linking agents [1].						
pKM101	This R factor plasmid e recombinational DNA re				,		
pAQ1	This multi-copy plasmic approximately 30, ther mutation. The plasmid a	carries the <i>f</i> efore 30 cop	<i>isG4</i> 28 muta ies of the m	tion. The copy outant gene a	number of the	ne plasmid is	

TA102 contains plasmids that confer resistance to Ampicillin and Tetracycline antibiotics, therefore its handling must be carried out by trained personnel, and according to the relevant and applicable regulations of the country, in which the R&D activity using the TA102 strain is carried out.

#### References

[1] Maron, D. M., & Ames, B. N. (1983). Revised methods for the Salmonella mutagenicity test. *Mutation research*, *113*(3-4), 173–215. https://doi.org/10.1016/0165-1161(83)90010-9

[2] Levin, D. E., Marnett, L. J., & Ames, B. N. (1984). Spontaneous and mutagen-induced deletions: mechanistic studies in Salmonella tester strain TA102. *Proceedings of the National Academy of Sciences of the United States of America*, 81(14), 4457–4461. <a href="https://doi.org/10.1073/pnas.81.14.4457">https://doi.org/10.1073/pnas.81.14.4457</a>

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	
Version-No.		Valid until Cancellation Date
3.0	RECORDS	
REC-82-07 X 3.0 MSDS PSS-01	11 TA100.docx	Page 4 of 5



Created by	Reviewed by	Released by	Cancelled by
C. Koelbert	Dimitrios Spiliotopoulos	Dimitrios Spiliotopoulos	
Date	Date	Date	Date
28.03.2022	20.04.2022	20.04.2022	
Signature	Signature	Signature	Signature
Hocher	Fighing Splity-ly	Bighing Aletyly	

Achtung: Ausgedruckte Kopien sind ungelenkte Dokumente. Vor Gebrauch auf Gültigkeit mit dem Original oder mittels Referenzkopie am Fileserver prüfen.

Attention: Printed copies are uncontrolled documents. Always verify against the original or the reference copy on the file server before use

# **Revision History**

The changes that led to the revision of this document are listed below.

Ver- sion	First Name Last Name	Date	Description
2.0	Dimitrios Spiliotopoulos	15.11.2021	Complete overhaul due to ISO 13485.
3.0	Cecile Koelbert	28.03.2022	Adjustment for ISO13485, "Valid until" added, Foot Note corrected

This document is the intellectual property of Endotell AG and may not be reproduced or made available to third parties for inspection without express permission. You are not authorized to use this document without express consent! As far as personal expressions are used in this document, they include women and men alike.

Document-No.		Valid from Release Date
REC-82-07_X	MSDS	
Version-No.		Valid until Cancellation Date
3.0	RECORDS	
REC-82-07_X_3.0 MSDS PSS-0111	Page 5 of 5	