ROSOLIC ACID

Powder supplement

1 – Intended use

Rosolic acid is used as an additive in Faecal Coliform media formulations.

2 - Composition - vial contents

Rosolic acid 1 g

3 - Principle of the method and explanation of the procedure

Rosolic acid, called also corallin or aurin, is a pH indicator in the range from 5.0 to 6.8, practically insoluble in water and freely soluble in alcohol, sodium hydroxide, potassium hydroxide and strong acids. The 1% solution of rosolic acid is used to supplement basal media such as m-FC broth and m-FC Agar. In these culture media, aniline blue and rosolic acid act as an indicator system and enhance the selective action of bile salts. According to Geldreich et al.[1], rosolic acid in M-FC media suppresses more of the nonfecal bacteria from certain water sources.

4 - Directions

Transfer the contents of one vial into a 100 mL volumetric flask. Add 100 mL of 0.2 N NaOH and mix to dissolve completely. Use this solution for the preparation of m-Faecal Coliform Agar (401487) and m-Faecal Coliform Broth (401486) by adding 10 mL of Rosolic Acid solution to 1000 mL of basal medium and boiling until completely dissolved. For details on the preparation method, please refer to the Instructions for Use of the above-mentioned culture media.

5 – Physical characteristics

Appearance crystallin red-brown powder

6 - Materials provided - packaging

Product	Type	REF	Pack
Rosolic Acid	Powder supplement	4211901	10 x 1 g

7 - Materials required but not provided

Basal culture media, autoclave, water-bath, sterile loops and pipettes, incubator and laboratory equipment as required, Erlenmeyer flasks, sterile Petri dishes.

8 - Test procedure

For inoculation, incubation and reading procedures, please refer to the Instructions for Use of culture media mentioned above.

9 - User quality control

All manufactured lots of the product are released for sale after the Quality Control has been performed to check the compliance with the specifications. However, the end user can perform its own Quality Control testing in accordance with the prepared culture medium, the local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. Refer to the Instructions for Use of culture media mentioned above for the suggested quality control strains.

10 - Limitations of the method

For limitations of the method, please refer to the Instructions for Use of culture media mentioned above.

11 - Precautions and warnings

- Rosolic Acid is for microbiological control and for professional use only; it must be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- Rosolic Acid is classified as dangerous: consult the Safety Data Sheet before the use
- The supplement and the basal media shall be used in association according to the directions described above. Apply Good Manufacturing Practice in the preparation process of plated media.
- All laboratory specimens should be considered infectious.
- The laboratory area must be controlled to avoid contaminants such as medium powder and supplements or microbial agents.
- Sterilize all biohazard waste before disposal. Dispose the unused supplements and the sterilized media inoculated with samples or microbial strains in accordance with current local legislation.
- Do not use Rosolic Acid as active ingredients for pharmaceutical preparations or as production materials intended for human and animal consumption.
- The Certificates of Analysis and the Safety Data Sheet of the product are available on the website www.biolifeitaliana.it.
- The information provided in this document has been defined to the best of our knowledge and ability and represents a guideline for the proper use of the product but without obligation or liability. In all cases existing local laws, regulations and standard procedures must be observed for the examination of samples collected from human and animal organic districts, for environmental samples and for products intended for human or animal consumption. Our information does not relieve our customers from their responsibility for checking the suitability of our product for the intended purpose.

12 - Storage conditions and shelf life

Upon receipt, store the product in the original package at 10-30°C away from direct light. If properly stored, the product may be used up to the expiry date printed on the label; do not use beyond this date. Before use, examine the product and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics).

13 - References

1. Geldreich EE, Clark HF, Huff CB, Best LC. 1965. Fecal-coliform-organism medium for the membrane filter technique. J Am Water Works Assoc. 1965; 56:208-244.

TABLE OF APPLICABLE SYMBOLS

REF or REF Catalogue number	LOT Batch code	Manufacturer	This side up	Fragile
Temperature limitation	Content sufficient for <n> tests	Consult Instructions for Use	Use by	Keep away from direct light

REVISION HISTORY

Version	Description of changes	Date
Revision 1	Updated layout and content	2024/10

Note: minor typographical, grammatical, and formatting changes are not included in the revision history.

Biolife Italiana S.r.l., Viale Monza 272, 20128 Milano, Italia
Tel. +39 02 25209.1, E-mail: export@biolifeitaliana.it;
Web: www.biolifeitaliana.it