

Produktinformation



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PRODUCT INFORMATION



Deoxycholic Acid MaxSpec® Standard

Item No. 31349

CAS Registry No.: 83-44-3

Formal Name: $(3\alpha,5\beta,12\alpha)$ -3,12-dihydroxy-cholan-24-oic

Synonyms: Cholanoic Acid, DCA, Deoxycholate

 $C_{24}H_{40}O_4$ MF: FW: 392.6 **Purity:** ≥95%

Supplied as: A solution in methanol; in a deactivated glass ampule

Concentration: 100 μg/ml (nominal); see certificate of analysis for verified concentration

Storage:

Stability: ≥2 years; Stability testing is ongoing to ensure concentration accuracy. The certificate of analysis and

product expiry date will be updated upon completion of testing.

Special Conditions: Store upright and unopened at -20°C. Warm to room temperature prior to opening.

Light sensitive.

Description

Deoxycholic acid (DCA) is a secondary bile acid that is formed via microbial transformation of cholic acid (Item No. 20250) in the colon. It can be conjugated to glycine or taurine (Item No. 27031) to produce glycodeoxycholic acid (GDCA; Item No. 20274) or taurodeoxycholic acid (TDCA; Item No. 15935), respectively, in hepatocytes. 1-3 DCA (0.2% v/v) inhibits spore germination induced by taurocholic acid (TCA; Item No. 16215) in seven C. difficile strains, as well as inhibits growth and decreases the cytotoxicity of C. difficile culture supernatants to Vero cells when used at a concentration of 0.02% v/v. 1 It inhibits ionizing radiation-induced p53-dependent transcription in a reporter assay using HCT116 cells when used at a concentration of 200 μM.⁴ Fecal and intestinal tissue levels of DCA are increased in a rat model of high-fat diet-induced obesity compared with rats fed a normal diet.⁵ Increased serum DCA levels have been found in patients with colorectal cancer.⁶

Deoxycholic acid MaxSpec® standard is a quantitative grade standard of DCA (Item No. 20756) that has been prepared specifically for mass spectrometry or any application where quantitative reproducibility is required. The solution has been prepared gravimetrically and is supplied in a deactivated glass ampule sealed under argon. The concentration was verified by comparison to an independently prepared calibration standard. This deoxycholic acid MaxSpec® standard is guaranteed to meet identity, purity, stability, and concentration specifications and is provided with a batch-specific certificate of analysis. Ongoing stability testing is performed to ensure the concentration remains accurate throughout the shelf life of the product. **Note:** The amount of solution added to the vial is in excess of the listed amount. Therefore, it is necessary to accurately measure volumes for preparation of calibration standards. Follow recommended storage and handling conditions to maintain product quality.

References

- Thanissery, R., Winston, J.A., and Theriot, C.M. Anaerobe 45, 86-100 (2017).
- Schmid, A., Neumann, H., Karrasch, T., et al. PLoS One 11(2), e0148869 (2016).
- Šarenac, T.M. and Mikov, M. Front. Pharmacol. 9:939, (2018).
- 4. Qiao, D., Gaitonde, S.V., Qi, W., et al. Carcinogenesis 22(6), 957-964 (2001).
- 5. Lin, H., An, Y., Tang, H., et al. J. Agric. Food Chem. 67(13), 3624-3632 (2019).
- Bayerdörffer, E., Mannes, G.A., Richter, W.O., et al. Gastroenterology 104(1), 145-151 (1993).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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