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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Cysteinyl Leukotriene HPLC Mixture II

Item No. 20002

Purity: ≥98%
Supplied as: A solution in ethanol (Please see below for specific amounts of each compound.)
Storage: -80°C
Stability: ≥1 year
Special Conditions: Light Sensitive

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

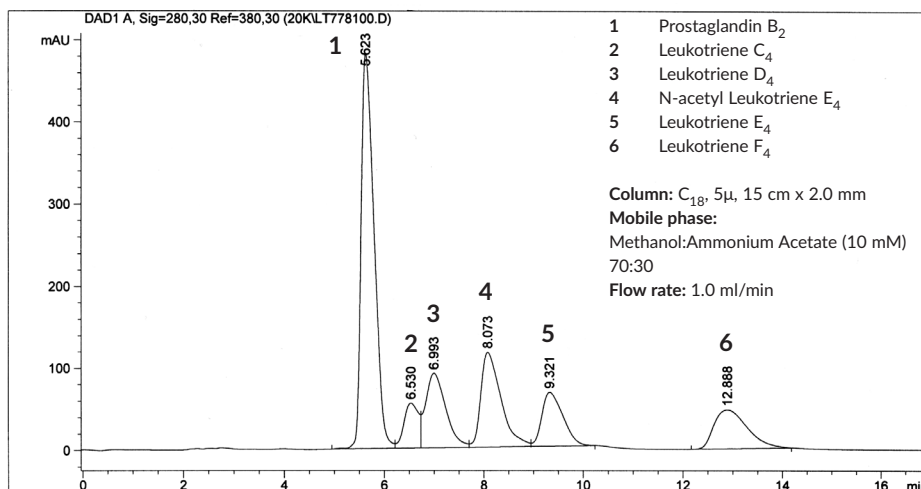
Laboratory Procedures

The Cysteinyl Leukotriene (cys LT) HPLC Mixture II is supplied as a solution in ethanol. For long term storage, we suggest that cys LT HPLC Mixture II be stored as supplied at -80°C. It should be stable for at least one year.

This cys LT HPLC Mixture II contains five common leukotrienes: LTC₄, LTD₄, LTE₄, LTF₄, and N-acetyl LTE₄. It also includes a cysteinyl prostaglandin, PGB₂, which has a UV absorption near the leukotrienes. The mixture is composed of 5 µg of each leukotriene and 10 µg of PGB₂.

Cys LTs are formed by conjugation of the 5-lipoxygenase product LTA₄ with glutathione, yielding LTC₄. This cys-LTs is then converted to LTD₄ and LTE₄ by consecutive release of the γ-glutamyl and the glyciyl moieties.^{4,5} LTF₄ is produced *in vitro*, but not reported to date *in vivo*. The rank order of potency of the cys LTs to contract vascular smooth muscle is LTD₄ > LTC₄ > LTE₄ >> LTF₄.^{2,3} N-acetyl LTE₄ is 100 times less potent than LTC₄ and LTE₄ as a vasoconstricting agent.¹ PGB₂ is a non-native prostaglandin commonly used as an internal standard for HPLC in which the UV detection is monitored at 280 nm.

Using reverse phase HPLC, this mixture can be resolved following the method given below.



References

1. Foster, A., Fitzsimmons, B., and Letts, L.G. *Prostaglandins* **31**, 1077-1086 (1986).
2. Bernstrom, K. and Hammarström, S. *Biochem. Biophys. Res. Commun.* **109**, 800-804 (1982).
3. Lord, A., Charleson, S., and Letts, L.G. *Prostaglandins* **29**, 651-660 (1985).
4. Samuelsson, B. *Science* **220**, 568-575 (1983).
5. Örnig, L., Hammarström, S., and Samuelsson, B. *Proc. Natl. Acad. Sci. USA* **77**, 2014-2017 (1980).

WARNING

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

SAFETY DATA

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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