# PRODUCT INFORMATION



## Primary Prostaglandin Metabolite MaxSpec® LC-MS Mixture

Item No. 19300

**Purity:** ≥95% for each compound

Supplied as: A solution in ethanol (1 µg/ml of each compound)

Fill volume: >1 ml Storage: -80°C Stability: ≥5 years

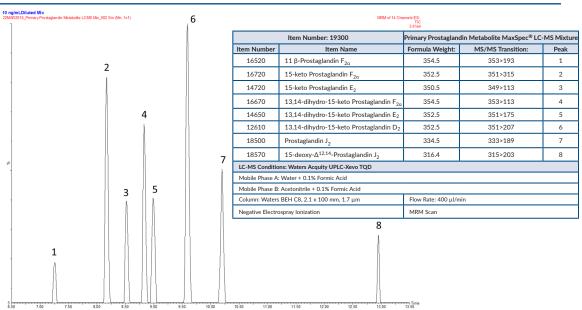
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Description

This mixture contains the first prominent metabolites of the primary prostaglandins (PGs) PGE2, PGD2, and PGF<sub>20</sub>. The mixture is supplied in an amber ampule in which the headspace has been purged with argon to prevent lipid oxidation. This product has been designed for direct use in LC-MS applications. The solution may be serially diluted for preparation of calibrators and QC standards and/or used directly as a system suitability standard or tuning standard. After opening, we recommend that the mixture be transferred immediately to a 2 ml glass screw cap vial, to prevent solvent evaporation, and stored at -80°C. The mixture should be discarded after multiple freeze/thaw cycles.

The majority of the primary PG metabolites represented in this mixture are formed by metabolism of PGE<sub>2</sub>, PGD<sub>2</sub>, and PGF<sub>2a</sub> via the 15-hydroxy PGDH enzymatic pathway and are biologically inactive.  $11\beta$ -PGF<sub>2a</sub> is a biologically active metabolite of  $PGD_2$  that is formed enzymatically in a stereospecific manner by PGFsynthase. It is further metabolized to the inactive metabolite PGDM by  $\beta$ -oxidation on both the upper and lower side chains. The PGJ2 metabolites of PGD2, are formed non-enzymatically and retain biological activity of various types. These analytes have been used extensively as plasma or urinary biomarkers to assess endogenous production of their respective parent prostaglandins.

## **Contents**



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.

## WARRANTY AND LIMITATION OF REMEDY

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