CERTIFICATE of ANALYSIS

Primary PG Metabolite MaxSpec® Discovery Mixture

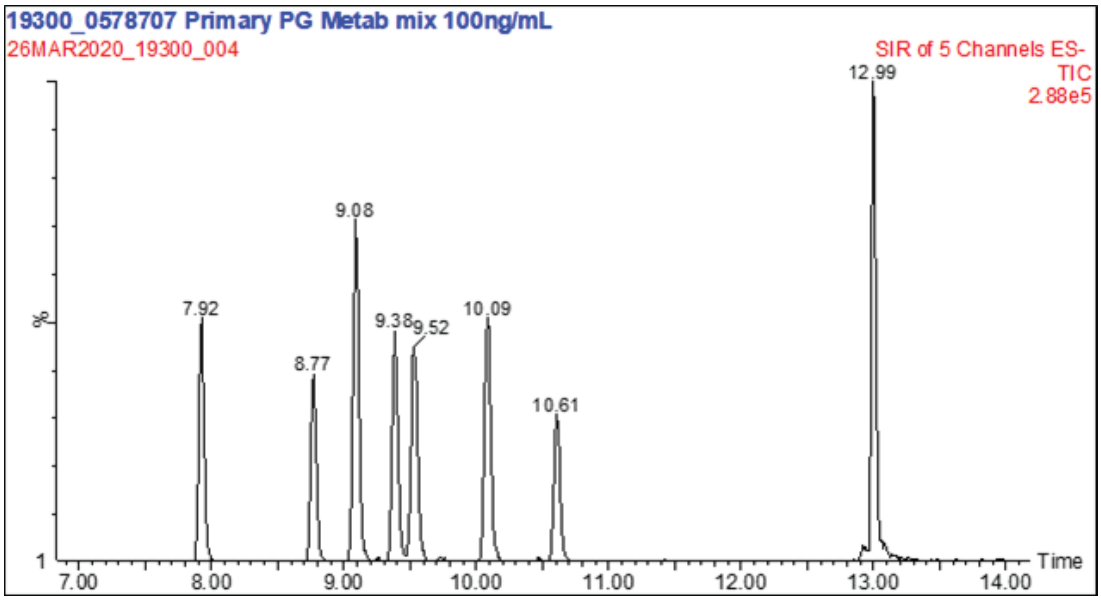
Item No.:	19300
Batch No.:	0578707
Expiry Date:	31MAR2025 (valid from date of certification)
Supplied as:	A solution in ethanol (1 µg/ml of each compound; nominal); in amber ampules
Contents:	See table
Volume per Ampule:	Not less than 1 ml. Ampules are overfilled. It is advised that labs use measured volumes.
Storage & Handling:	Store upright and unopened at -80°C. Warm to room temperature prior to opening.

Description

MaxSpec® LC-MS mixtures are purpose-built for qualitative mass spectrometry applications. This solution has been prepared using gravimetric and volumetric preperation procedures from a combination of neat and formulated pure standards, and is supplied in ampules sealed under argon. Ongoing stability tests are performed to ensure the presence of each analyte throughout the shelf life of the product. Follow recommended storage and handling conditions.

Quality Information

Test	Limit	Result	Meets Specification
Negative ESI-HRMS	Identities confirmed	Pass	✓



Approval: Title: Sr. Director of Analytical Chemistry Certification Date: 31MAR2020

Cayman Chemical certifies that this product meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiry date when stored unopened as recommended.

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Quality Control Table

Item No.	Item Name	RT (min)	MS/MS Transition
16520	11ß-Prostaglandin $F_{2\alpha}$	7.92	353>193
16720	15-keto Prostaglandin $F_{2\alpha}$	8.77	351>315
14720	15-keto Prostaglandin E_2	9.08	349>113
16670	13,14-dihydro-15-keto Prostaglandin $F_{2\alpha}$	9.38	353>113
14650	13,14-dihydro-15-keto Prostaglandin E_2	9.52	351>175
12610	13,14-dihydro-15-keto Prostaglandin D_2	10.09	351>207
18500	Prostaglandin J_2	10.61	333>189
18570	15-deoxy-Δ12,14-Prostaglandin J_2	12.99	315>203

LC-MS Conditions: Waters Acuity UPLC, Xevo TQD		
Mobile Phase A: Water + 0.1% Formic Acid		
Mobile Phase B: Acetonitrile + 0.1% Formic Acid		
Column: Waters BEH C18 2.1 x 100 mm, 1.7 µm	Flow Rate: 0.4 ml/min	
Gradient: 0 min 5% B; 0-4 min 25% B; 4-12 min 50% B; 12-12.01 min 98% B; 12.01-13 min 98% B; 13-13.01 5% B		
Negative Electrospray Ionization	Parallel Reaction Monitoring	

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Revision History

Revision No.	Date	Reason for Revision
01	31MAR2020	Initial version
02	15FEB2022	Expiry update
03	17APR2023	Updated format, expiry

Disclaimers

Material Safety Data

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some but not all of the information required for the safe and proper use of this material. Before use, review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

Warranty and Limitation of Remedy

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specification.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver of Buyer of all claims hereunder with respect to said material.
For further details, please refer to our Warranty and Limitations of Remedy located on our website and in our catalog.

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