

## Instructions for Use

# Steroid Tuning Mix 4

The Steroid Tuning Mix 4 is a solution of estradiol, estrone, estriol, progesterone, 17-hydroxypregnenolone, both in natural forms and stable isotopes. It is intended to be used for the compound optimization of mass transitions.

**REF** **30227631**

 **2 mL / bottle**



**For Laboratory Use**



**IBL International GmbH**  
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**Always there for you**



**REVISION HISTORY OF INSTRUCTIONS FOR USE**

New product

**1. INTENDED USE**

The Steroid Tuning Mix 4 is a solution consisting of estradiol, estrone, estriol, progesterone, 17-hydroxypregnenolone, both in natural forms and stable isotope labeled versions. It is intended to be used for the compound optimization of mass transitions.

**2. WARNINGS AND PRECAUTIONS**

1. For Laboratory Use.
2. Before starting the tuning, read the instructions completely and carefully. Use the valid version of the package insert provided with the product. Be sure that everything is understood.
3. In case of severe damage of the product package please contact IBL or your supplier in written form, latest one week after receiving the product. Do not use damaged components, but keep safe for complaint related issues.
4. Broken glass may cause injury. Handle glass vessels with caution.
5. Obey lot number and expiry date. Do not use expired reagents.
6. Follow good laboratory practice and safety guidelines. Wear lab coats, disposable gloves and protective glasses where necessary.
7. Reagents of this product containing hazardous material may cause eye and skin irritations. See MATERIALS SUPPLIED and labels for details. Material Safety Data Sheets for this product are available on the IBL-Homepage or upon request directly from IBL.
8. Chemicals and prepared, used, unused or expired reagents have to be treated as hazardous waste according to national biohazard and safety guidelines or regulations.
9. The product contains no material of human or animal origin. Still the material should be handled with extreme caution.
10. The cleaning staff should be guided by the professionals regarding potential hazards and handling.
11. Avoid contact with solutions provided. They may cause skin irritations and burns.

**3. STORAGE AND STABILITY**

The Product is shipped at ambient temperature and should be stored at -20°C.

Keep away from heat or direct sunlight.

The Product is stable up to 6 months after the first opening (not exceeding the expiry date) when stored at indicated storage temperature. The unopened reagents are stable until the expiry date indicated.

**4. MATERIALS SUPPLIED**

Storage	Quantity	Symbol	Component
-20°C	2 mL	<b>TUNING 4</b>	<b>Steroid Tuning Mix 4</b> (Contains methanol)

**5. MS TUNING**

MS Tuning is highly recommended for optimizing the MRM transitions prior to LC-MS measurement with Steroid Panel LC-MS ([REF](#) 30191875). For further information please contact: LC-MS.IBL@tecan.com

**5.1. Procedure**

For tuning of each substance follow this procedure:

Dilute the Tuning Mix with methanol (LC-MS grade, not included) and/or water (LC-MS grade, not included) according to the Instrument sensitivity. Infuse the solution directly into the Ion Source using the syringe pump.














For the manual tuning:

Start a continuous Q1 Scan and optimize the Ion Source parameters such as declustering potential (DP) and entrance potential (EP) parameters. Switch to the Product Ions Scan method and optimize the collision energy (CE) value in which most specific and intense fragments are achieved (ramp the CE parameter). Switch to the MRM mode, enter the MRM transitions obtained from the previous step and if necessary, optimize the rest of the parameters such as cell exit potential (CXP), capillary voltage or temperature and gas flow rate.

For the automated tuning:

Start a continuous Q1 scan then use the compound optimization function.

# Symbols / Symbole / Symboles / Símbolos / Simboli / Símbolos / Σύμβολα

	Cat.-No.: / Kat.-Nr.: / No.- Cat.: / Cat.-No.: / N.-Cat.: / N.º Cat.: / Αριθμός-Κατ.:
	Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lotto n.: / Lote N.º: / Αριθμός -Παραγωγή:
	Use by: / Verwendbar bis: / Utiliser à: / Usado por: / Da utilizzare entro:/ Usar até: / Χρησιμοποιείται από:
	No. of Tests: / Kitgröße: / Nb. de Tests: / No. de Determ.: / Quantità dei tests: / N.º de Testes: / Αριθμός εξετάσεων:
	Concentrate / Konzentrat / Concentré / Concentrar / Concentrato / Concentrado / Συμπύκνωμα
	Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizzato / Liofilizado / Λυοφιλοποιημένο
	In Vitro Diagnostic Medical Device / In-vitro-Diagnostikum / Appareil Médical pour Diagnostics In Vitro / Dispositivo Médico para Diagnóstico In Vitro / Dispositivo Medico Diagnostico In vitro / Equipamento Médico de Diagnóstico In Vitro / Ιατρική συσκευή για In-Vitro Διάγνωση
	Contains biological material of human origin / Enthält biologisches Material menschlichen Ursprungs / Contient une substance biologique d'origine humaine / Contiene material biológico de origen humano / Contiene materiale biologico di origine umana / Contém material biológico de origem humana / Περιέχει βιολογικό υλικό ανθρώπινης προέλευσης
	Contains biological material of animal origin / Enthält biologisches Material tierischen Ursprungs / Contient une substance biologique d'origine animale / Contiene material biológico de origen animal / Contiene materiale biologico di origine animale / Contém material biológico de origem animal / Περιέχει βιολογικό υλικό ζωικής προέλευσης
	Unique Device Identification / Eindeutige Geräteerkennung / Identifiant de dispositif unique / Identificación única de producto / Identificatore univoco del dispositivo / Identificador de dispositivo único / Μοναδικός αναγνωριστικός κωδικός προϊόντος
	Read instructions before use / Arbeitsanleitung lesen / Lire la fiche technique avant emploi / Lea las instrucciones antes de usar / Leggere le istruzioni prima dell'uso / Ler as instruções antes de usar / Διαβάστε τις οδηγίες πριν την χρήση
	Keep away from heat or direct sun light / Vor Hitze und direkter Sonneneinstrahlung schützen / Garder à l'abri de la chaleur et de toute exposition lumineuse / Manténgase alejado del calor o la luz solar directa / Non esporre ai raggi solari / Manter longe do calor ou luz solar directa / Να φυλάσσεται μακριά από θερμότητα και άμεση επαφή με το φως του ηλίου
	Store at: / Lagern bei: / Stocker à: / Almacene a: / Armazena a: / Conservare a: / Armazena em: / Αποθήκευση στους:
	Store at: 2 - 8°C / Lagern bei: 2 - 8°C / Stocker à: 2 - 8°C / Almacene a: 2 - 8°C / Armazena a: 2 - 8°C / Conservare a: 2-8°C / Armazena em: 2-8°C / Αποθήκευση στους: 2-8°C
	Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbricante: / Παραγωγός:
	Distributor: / Distributor: / Distributeur: / Distributor: / Distributore: / Distribuidor: / Διανομέας:
	Caution! / Vorsicht! / Attention! / ¡Precaución! / Attenzione! / Cuidado! / Προσοχή!
	Symbols of the kit components see MATERIALS SUPPLIED. Die Symbole der Komponenten sind im Kapitel KOMPONENTEN DES KITS beschrieben. Voir MATERIEL FOURNI pour les symboles des composants du kit. Símbolos de los componentes del juego de reactivos, vea MATERIALES SUMINISTRADOS. Per i simboli dei componenti del kit si veda COMPONENTI DEL KIT. Para símbolos dos componentes do kit ver MATERIAIS FORNECIDOS. Για τα σύμβολα των συστατικών του κιτ συμβουλευτείτε το ΠΑΡΕΧΟΜΕΝΑ ΥΛΙΚΑ.

Generic table, not all symbols are present in the product

**COMPLAINTS:** Complaints may be submitted initially written or vocal. Subsequently they need to be filed including the test performance and results in writing in case of analytical reasons.

**WARRANTY:** The product is warranted to be free from material defects within the specific shelf life and to comply with product specifications delivered with the product. The product must be used according to the Intended use, all instructions given in the instructions for use and within the product specific shelf life. Any modification of the test procedure or exchange or mixing of components of different lots could negatively affect the results. These cases invalidate any claim for replacement.

**LIMITATION OF LIABILITY:** IN ALL CIRCUMSTANCES THE EXTENT OF MANUFACTURER'S LIABILITY IS LIMITED TO THE PURCHASE PRICE OF THE KIT(S) IN QUESTION. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS.

The labelling of hazardous substances is according to European directive.

For further country-specific classifications, please refer to the corresponding safety data sheet.



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