

HUMAN HEALTH

ENVIRONMENTAL HEALTH

NOW IT IS
EASY TO SWITCH
TO CLINICAL
MSMS



CHS™ STEROID PROFILING KIT AND SOFTWARE

Brochure not for distribution in the USA and Canada


PerkinElmer®
For the Better



MEETING YOUR NEEDS
FOR STEROID ASSAYS



PerkinElmer's new CHS™ MSMS Steroid Kit helps you to implement liquid chromatography – tandem mass spectrometry (LC-MSMS) in your laboratory and hence to meet your present and future steroid assay needs.

Improved specificity and sensitivity

New LC-MSMS methods represent the most successful approach towards improving on the specificity attainable using immunoassays. As well as offering improved analytical performance, the CHS MSMS Steroid Kit also provides you with the opportunity to view the overall pattern of expression of steroids rather than relying on individual one-off tests.

The CHS MSMS Steroid Kit supports major savings in time and costs. It is especially well suited for specimens with low concentrations and small volume. With such specimens, the thoroughly validated kit affords high sensitivity and specificity through analyte-specific calibration together with the ability to measure 10 steroid analytes in the same aliquot.

Labor-saving informatics

Tandem mass spectrometry generates increased amount of data. For use with its new kit, and to provide labor savings in data handling, PerkinElmer has developed its dedicated CHS Data Suite Software.





CHS™ MSMS STEROID KIT



SIMULTANEOUS MEASUREMENT OF 10 STEROID ANALYTES

PerkinElmer CHS MSMS Steroid Kit represents the latest generation in LC-MSMS products, offering superior limits of quantification. The kit is fast and

easy to use, and requires no derivatization steps.

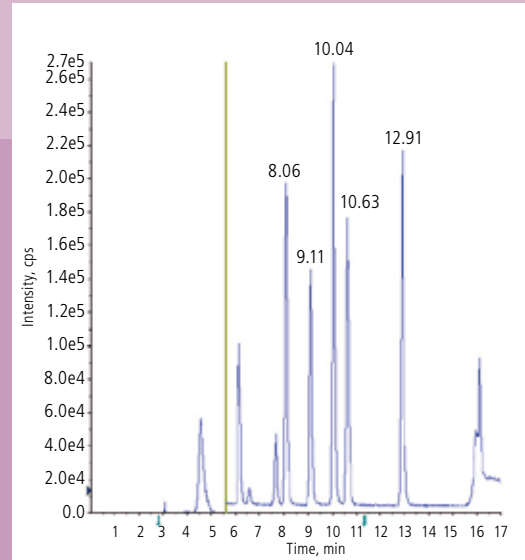
Using a sample volume of only 100 μ l, the multianalyte steroid profiling kit provides results for 10 analytes in the same assay:

- testosterone
- cortisol
- corticosterone
- dehydroepiandrosterone
- progesterone
- 4-androsten-3,17-dione
- 11-deoxycortisol
- dehydroepiandrosterone sulfate
- 17-alpha-hydroxyprogesterone
- aldosterone

Determination of concentration profiles of these 10 steroids may aid in clinical recognition, diagnosis and treatment of disease affecting the adrenal glands, ovaries, testes, and placenta.

State-of-the-art product to give you confidence in your results

The kit is thoroughly validated. With specialized calibrators, and analyte-specific internal standards with deuterium labels, it also provides the luxury of three levels of analyte-specific internal controls.



CHS™ MSMS Steroid Kit gives you reliable concentration profiles for 10 key steroids.



From individual results to comprehensive profiles

Numerous enzymes are involved in the biosynthetic pathway of steroids and steroid intermediates. Loss of function of certain enzymes can trigger large changes in the pattern of steroid expression. With tandem mass spectrometry and CHS products, you can see the overall pattern of expression of steroids rather than individually acquired steroid values.



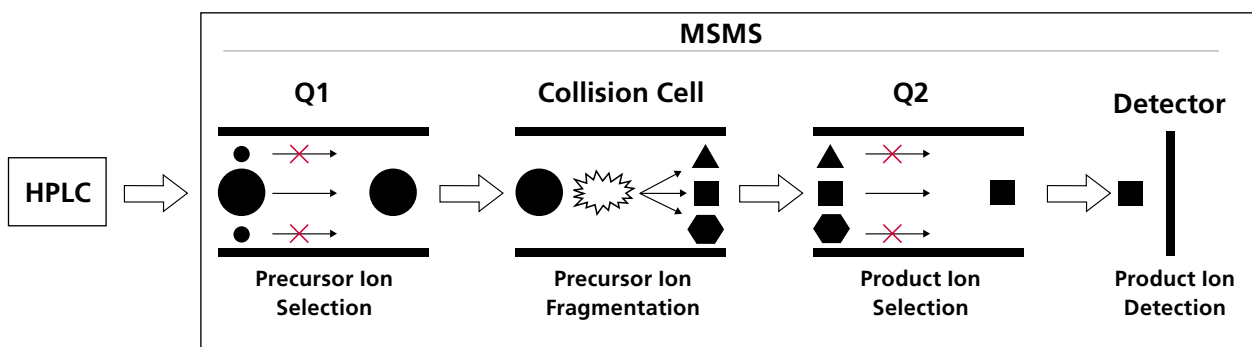
WHY LABORATORIES ARE SWITCHING TO LC-MSMS

Today's endocrinology laboratories have higher expectations as to results accuracy and ease of assay performance. The "gold standard" method for meeting the highest expectations is high-

performance liquid chromatography/tandem mass spectrometry (LC-MSMS).

LC-MSMS combines the benefits of two complementary techniques. High performance liquid chromatography is used to fractionate the samples into individual analytes and tandem mass spectrometry is used to quantitate these analytes.

The fractionation stage is a major factor in the method's excellent analytical specificity. It removes the ambiguity associated with mass spectrometry when the technique is used to analyze mixtures.

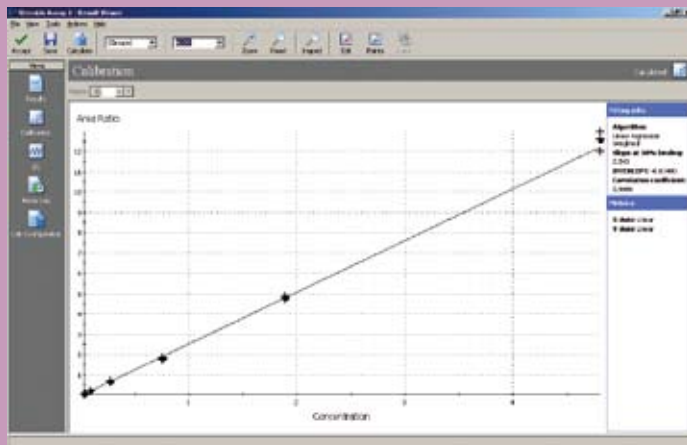


HPLC separates compounds out on the basis of retention time. The MSMS process separates precursor ions on the basis of their mass to charge ratio (m/z), then following a fragmentation stage there is a further separation of the product ions, also by their m/z .

DEDICATED INFORMATICS TO EASE THE WORKLOAD

Tandem mass spectrometry is a multiplexing technology that generates large amounts of data – up to 100 times more data than

typical immunoassays. PerkinElmer's CHS Data Suite software is optimized for use with PerkinElmer's CHS MSMS Steroids Kit and is designed to ease the data management workload.



CHS Data Suite is an easy to deploy and easy to use software package pre-configured according to the needs of the CHS Kit user and is installed on a standard Windows-based PC. The software helps implement major savings in labor, as you:

- Automatically highlight (flag) cutoff violations
- Evaluate QC performance and trends
- Analyze cutoffs

For the better

At PerkinElmer, we're working to improve the health and safety of people and their environment. From safer water to cleaner air to healthier babies, our solutions touch every part of your life.

PerkinElmer CHS products are not available in the USA, Canada and other countries. For information on availability of PerkinElmer diagnostic products please contact your local representative.

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
Phone: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com

PerkinElmer Genetic Screening
Center of Excellence
Wallac Oy, PO Box 10
20101 Turku, Finland
Phone: + 358 2 2678 111
Fax: + 358 2 2678 357



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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