



**Succinylacetone**  
also for underivatized methods!

Reliable Newborn Screening  
by Mass Spectrometry

**MassChrom<sup>®</sup> Amino Acids  
and Acylcarnitines  
from Dried Blood**

# MassChrom<sup>®</sup> Amino Acids and Acylcarnitines from Dried Blood

- CE-IVD validated and ready-to-use assays by LC-MS/MS
- Each analyte safeguarded by its own internal standard
- Fast and robust sample preparation
- Screening of many metabolic disorders in a single run such as PKU and MSUD

## Ordering Information

### MassChrom<sup>®</sup> Kits for 960 Tests

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#### With Derivatisation

<b>55000</b>	Amino Acids and Acylcarnitines from Dried Blood with 96 Well Plates
55111	Succinylacetone Upgrade Set, consisting of Internal Standard and Reconstitution Buffer
<b>55000/F</b>	Amino Acids and Acylcarnitines from Dried Blood with 96 Well Filter Plates

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#### Without Derivatisation

<b>57000</b>	Amino Acids and Acylcarnitines from Dried Blood/Non Derivatised with 96 Well Plates
57111	Succinylacetone Upgrade Set, consisting of Internal Standard, Extraction Buffer and Protective Sheets
<b>57000/F</b>	Amino Acids and Acylcarnitines from Dried Blood/Non Derivatised with 96 Well Filter Plates
57111/F	Succinylacetone Upgrade Set, consisting of Internal Standard, Extraction Buffer, Protective Sheets and Pierceable Adhesive Seals

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### MassCheck<sup>®</sup> Dried Blood Spot Controls on Filter Card

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	Amino Acids, Acylcarnitines incl. Succinylacetone Dried Blood Spot Controls
0191	Bi-Level (I + II), 2 x 3 spots
0192	Level I, 1 x 3 spots
0193	Level II, 1 x 3 spots

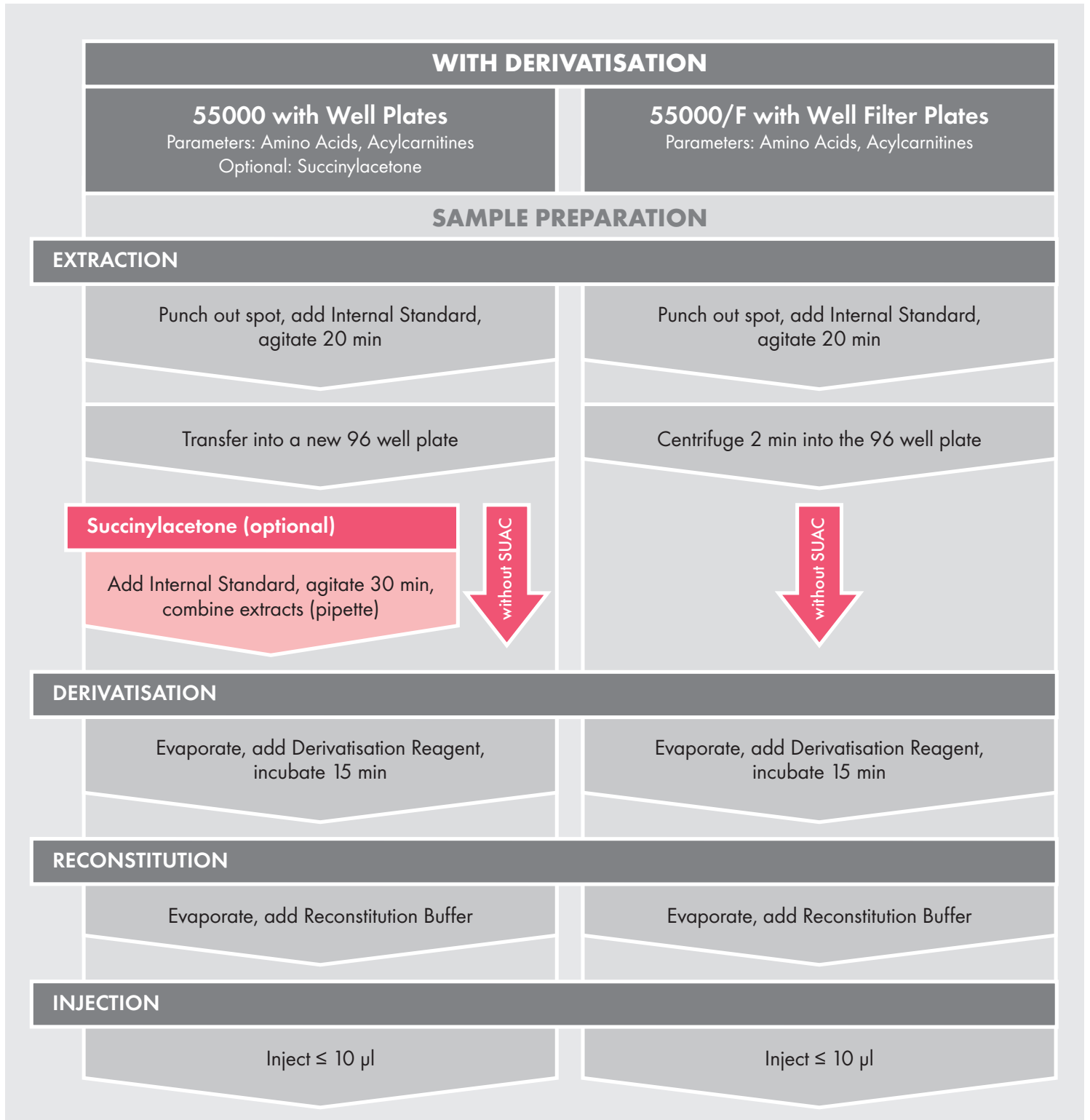
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Quantitative assays for the confirmation of 48 amino acids also available!

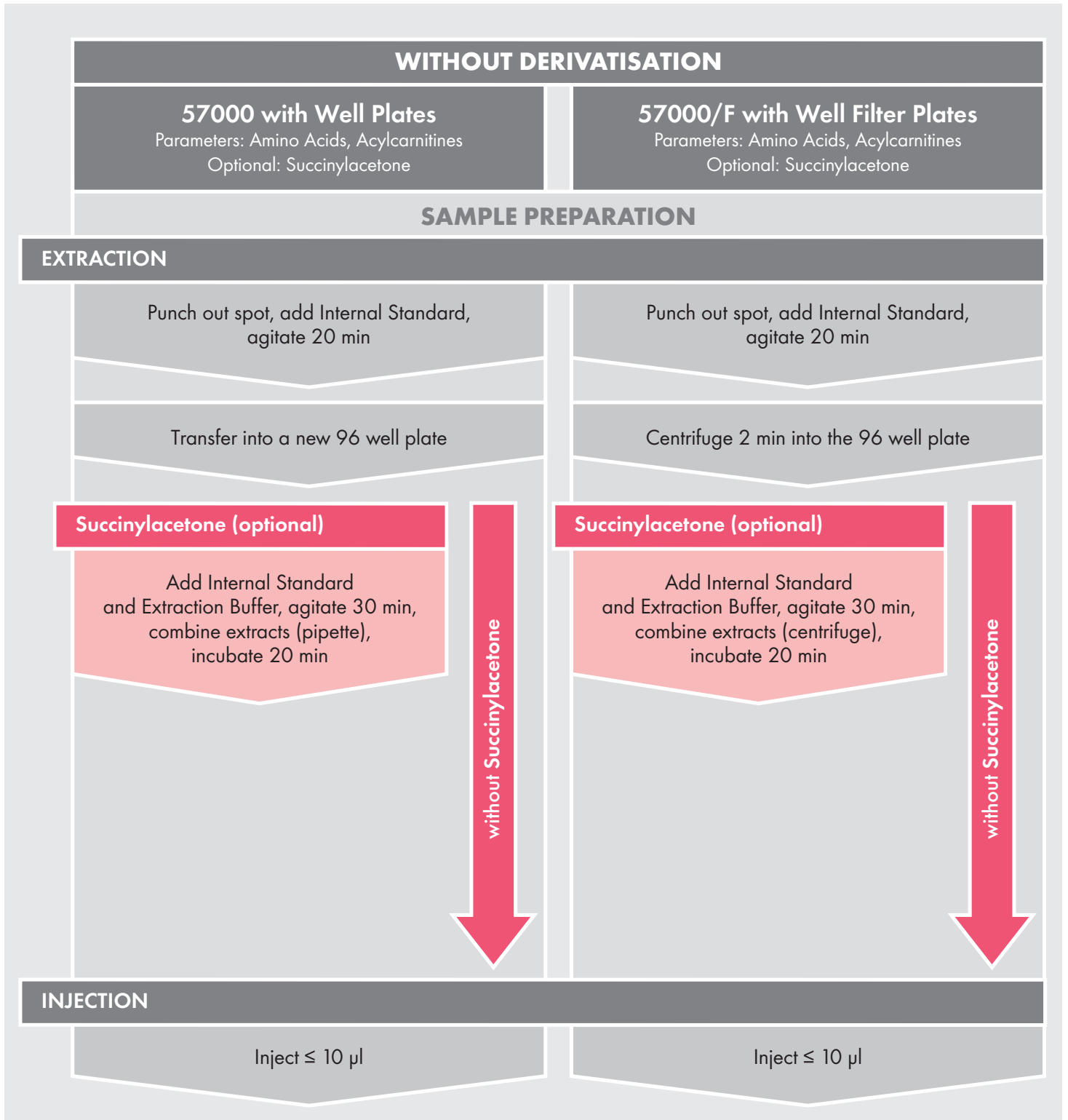
More info at:  
[www.chromsystems.com/AAA](http://www.chromsystems.com/AAA)

# Find Your Solution for Reliable Newborn Screening by LC-MS/MS

Our assays with derivatisation combine highest sensitivity with extremely low interferences. The underderivatised assays are characterised by a shorter and faster sample preparation. The methods are available with well plates, or alternatively with well filter plates, reducing



the sample prep by one pipetting step. Upgrade sets for the determination of succinylacetone can be easily integrated into our assays and are available for both solutions – with and without derivatisation.



## Test Menu Amino Acids, Acylcarnitines and Succinylacetone

The underivatized methods use Multi Reaction Monitoring (MRM) for all analytes. In comparison, the methods with derivatization use Neutral Loss Scan or MRM for amino acids/succinylacetone and Parent Ion Scan for all acylcarnitines.

Amino Acids and Succinylacetone	Internal Standard
Alanine	Alanine-D4
Arginine	Arginine-D7
Aspartic acid	Aspartic acid-D3
Citrulline	Citrulline-D2
Glutamic acid	Glutamic acid-D5
Glycine	Glycine- <sup>13</sup> C <sub>2</sub> - <sup>15</sup> N
Leucine	Leucine-D3
Methionine	Methionine-D3
Ornithine	Ornithine-D6
Phenylalanine	Phenylalanine-D5
Proline	Proline-D7
Tyrosine	Tyrosine-D4
Valine	Valine-D8
Succinylacetone	Succinylacetone- <sup>13</sup> C <sub>5</sub>

Acylcarnitines and free Carnitine	Internal Standard
Free Carnitine	Carnitine-D9
C2-Carnitine	C2-Carnitine-D3
C3-Carnitine	C3-Carnitine-D3
C4-Carnitine	C4-Carnitine-D3
C5-Carnitine	C5-Carnitine-D9
C5DC-Carnitine	C5DC-Carnitine-D6
C6-Carnitine	C6-Carnitine-D3
C8-Carnitine	C8-Carnitine-D3
C10-Carnitine	C10-Carnitine-D3
C12-Carnitine	C12-Carnitine-D3
C14-Carnitine	C14-Carnitine-D3
C16-Carnitine	C16-Carnitine-D3
C18-Carnitine	C18-Carnitine-D3

# CHROMSYSTEMS

DIAGNOSTICS BY HPLC & LC-MS/MS



These products are not available in all countries. Please contact your local Chromsystems sales representative for availability in your region.



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NBS EN 02-2020



Management system certified  
according to: ISO 9001, ISO  
13485 (including MDSAP)