



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



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Succinylacetone
now also for underivatised methods!

Reliable Newborn Screening
by Mass Spectrometry

**MassChrom® Amino Acids
and Acylcarnitines
from Dried Blood**

MassChrom® 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® Kits for 960 Tests	
With Derivatisation	
55000	Amino Acids and Acylcarnitines from Dried Blood with 96 Well Plates
55111	Succinylacetone Upgrade Set, consisting of Internal Standard and Reconstitution Buffer
55000/F	Amino Acids and Acylcarnitines from Dried Blood with 96 Well Filter Plates
Without Derivatisation	
57000	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
57000/F	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

MassCheck® Dried Blood Spot Controls on Filter Card	
	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

Test Menu Amino Acids, Acylcarnitines and Succinylacetone

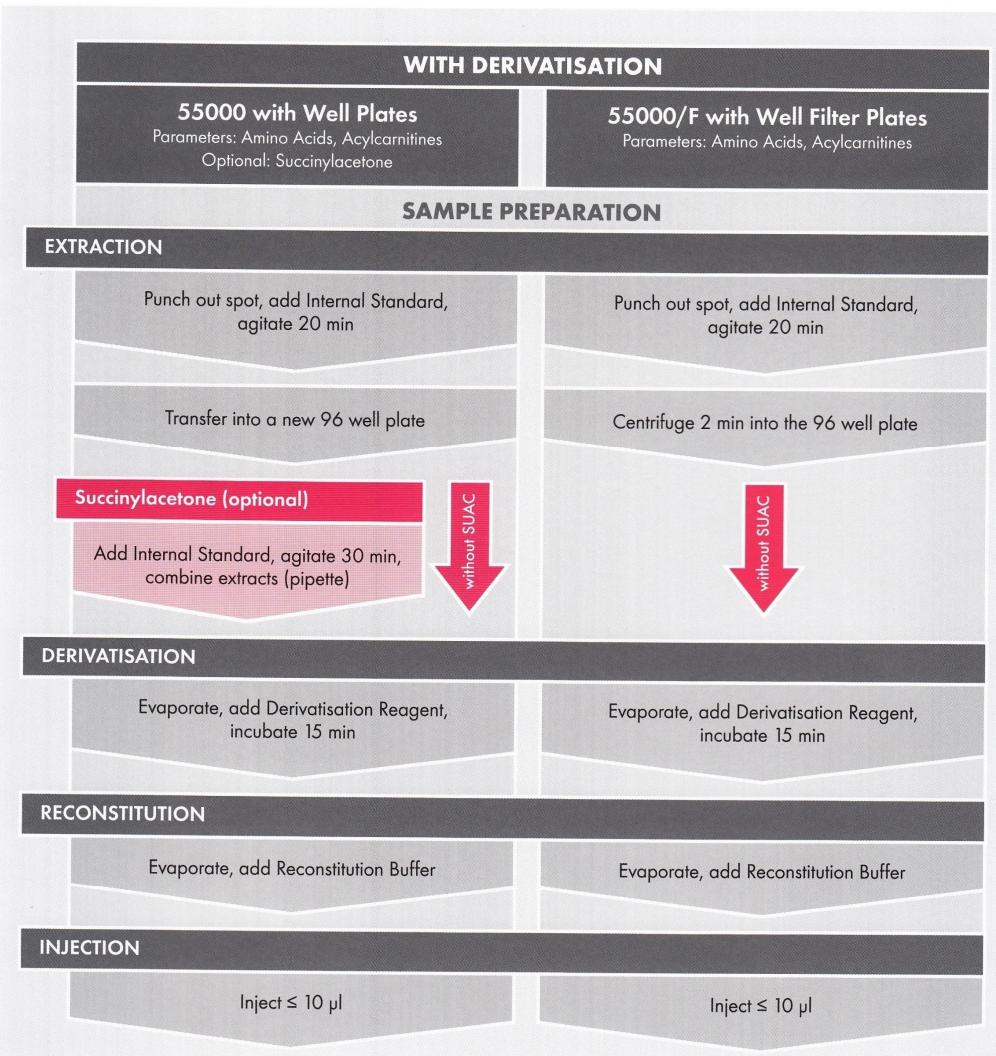
The underivatised methods use Multi Reaction Monitoring (MRM) for all analytes. In comparison, the methods with derivatisation use Neutral Loss Scan or MRM for amino acids/succinylacetone and Parent Ion Scan for all acylcarnitines.

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- ¹³ C ₂ - ¹⁵ N
Leucine	Leucine-D3
Methionine	Methionine-D3
Ornithine	Ornithine-D6
Phenylalanine	Phenylalanine-D5
Proline	Proline-D7
Tyrosine	Tyrosine-D4
Valine	Valine-D8
Succinylacetone	Succinylacetone-13C ₅

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

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

Our assays with derivatisation combine highest sensitivity with extremely low interferences. The underivatised 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.

