

HUMAN HEALTH

ENVIRONMENTAL HEALTH

EXPANDED SCREENING FOR METABOLIC DISORDERS

The NeoBase™ Non-derivatized MSMS kit

is intended for the
measurement and
evaluation of amino

acid, free carnitine and acylcarnitine concentrations (the AAAC panel) and succinylacetone from newborn heel prick blood samples dried on filter paper with the non-derivatized method.

Non-derivatized methodology

Compared with a derivatized assay, the NeoBase non-derivatized solution brings big savings in time and work, while assuring equivalent analytical performance. A derivatized assay typically requires 12 steps while NeoBase has only 4 steps.

Succinylacetone
AAAC panel

The kit's 25 internal standards support detection of more than 30 disorders.

Easy to extend the testing to include succinylacetone

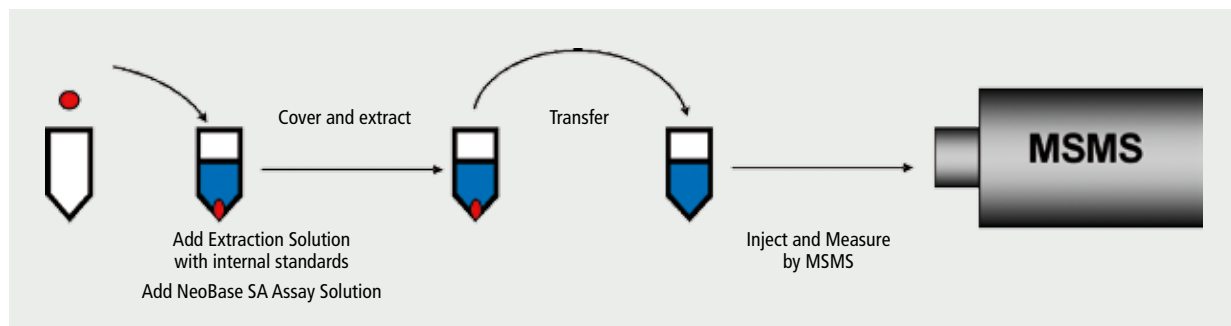
The kit is supplied with 25 internal standards and 23 controls, and easily supports the measurement of succinylacetone with the addition of 3042-0020 Succinylacetone Assay Solution. Succinylacetone is a suggested primary marker for Tyrosinemia type I. In total, NeoBase can measure more than 40 analytes.



Quality right from the start


PerkinElmer[®]
For the Better

Improved analytical sensitivity



Used with Succinylacetone (SA) Assay Solution, the 3040-0010/3040-001U NeoBase kit provides a more comprehensive solution for expanded newborn screening by allowing the measurement of succinylacetone in addition to amino acids, free carnitine, and acylcarnitines concentrations.

Quantitative analysis of succinylacetone, amino acids, free carnitine and acylcarnitines and their relationship with each other provides analyte concentration profiles.

STABLE-ISOTOPE STANDARDS		DRIED BLOOD SPOT CONTROLS	
Amino Acids:	Acylcarnitines:	Amino Acids:	Acylcarnitines:
Alanine	Free carnitine (C0)	Alanine	Free carnitine (C0)
Arginine	Acetylcarnitine (C2)	Citrulline	Acetylcarnitine (C2)
Citrulline	Propionylcarnitine (C3)	Glycine	Propionylcarnitine (C3)
Glycine	Butyrylcarnitine (C4)	Leucine	Butyrylcarnitine (C4)
Leucine	Isovalerylcarnitine (C5)	Methionine	Isovalerylcarnitine (C5)
Methionine	Glutaryl carnitine (C5DC)	Phenylalanine	Glutaryl carnitine (C5DC)
Ornithine	Hexanoylcarnitine (C6)	Proline	Hexanoylcarnitine (C6)
Phenylalanine	Octanoylcarnitine (C8)	Tyrosine	Octanoylcarnitine (C8)
Proline	Decanoylcarnitine (C10)	Valine	Decanoylcarnitine (C10)
Tyrosine	Lauroylcarnitine (C12)	Succinylacetone	Lauroylcarnitine (C12)
Valine	Myristoylcarnitine (C14)		Myristoylcarnitine (C14)
Succinylacetone	Palmitoylcarnitine (C16)		Palmitoylcarnitine (C16)
	Octadecanoylcarnitine (C18)		Octadecanoylcarnitine (C18)

ORDERING INFORMATION

3040-0010	NeoBase Non-derivatized MSMS kit (outside the US)
3040-001U	NeoBase Non-derivatized MSMS kit (in the US)
3041-0020	NeoBase Non-derivatized Assay Solutions
3042-0020	NeoBase Succinylacetone Assay Solution

All PerkinElmer neonatal products may not be available in all countries.

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

PerkinElmer, Inc.
Wallac Oy
PO Box 10
20101 Turku, Finland
Phone: + 358 2 2678 111
Fax: + 358 2 2678 357

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