

Expanded screening for metabolic disorders



The NeoBase™ Non-derivatized MSMS kit is intended for the measurement and evaluation of amino acid, free carnitine and acylcarnite 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.

Easy to extend the testing to include succinylacetone

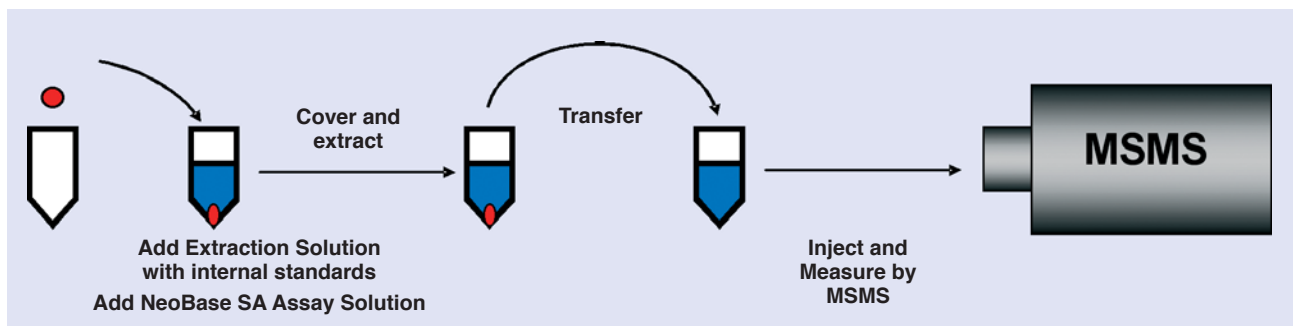
The kit is supplied with 25 internal standards and 23 controls, and easily supports the measurement of succinylacetone with the addition of 3042-0010 Succinylacetone Assay Solution. Succinylacetone is a suggested primary marker for Tyrosinemia type I. In total, NeoBase can measure more than 40 analytes.

Succinylacetone

AAAC panel

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

Improved analytical sensitivity



Used with 3042-0010 Succinylacetone (SA) Assay Solution, the 3040-0010 NeoBase kit fulfills the promise of a total 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

Amino Acids:	Acylcarnitines:
Alanine	Free carnitine (C0)
Arginine	Acetylcarnitine (C2)
Citrulline	Propionylcarnitine (C3)
Glycine	Butyrylcarnitine (C4)
Leucine	Isovalerylcarnitine (C5)
Methionine	Glutarylcarnitine (C5DC)
Ornithine	Hexanoylcarnitine (C6)
Phenylalanine	Octanoylcarnitine (C8)
Proline	Decanoylcarnitine (C10)
Tyrosine	Lauroylcarnitine (C12)
<u>Valine</u>	Myristoylcarnitine (C14)
Succinylacetone	Palmitoylcarnitine (C16)
	Octadecanoylcarnitine (C18)

Dried blood spot controls

Amino Acids:	Acylcarnitines:
Alanine	Free carnitine (C0)
Citrulline	Acetylcarnitine (C2)
Glycine	Propionylcarnitine (C3)
Leucine	Butyrylcarnitine (C4)
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Succinylacetone	Lauroylcarnitine (C12)
	Myristoylcarnitine (C14)
	Palmitoylcarnitine (C16)
	Octadecanoylcarnitine (C18)

Ordering information

3040-0010 NeoBase Non-derivatized MSMS kit
 3041-0010 NeoBase Non-derivatized Assay Solution
 3042-0010 NeoBase Succinylacetone Assay Solution

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

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