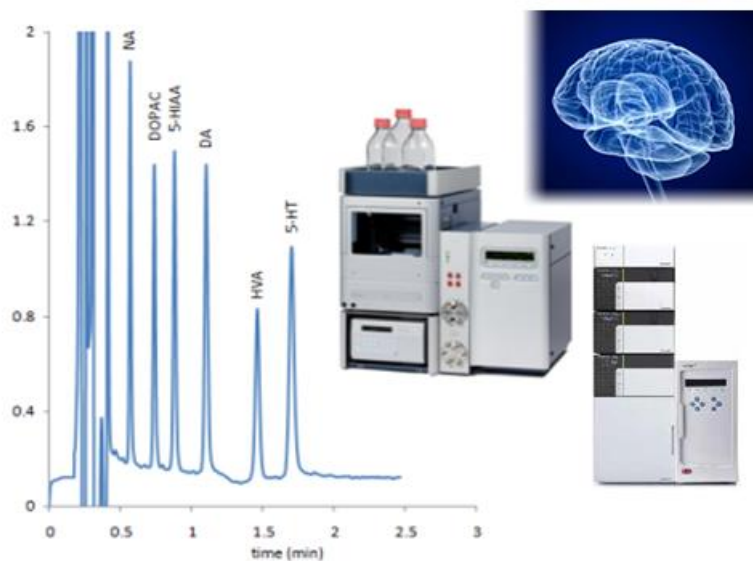




Detektor elektrochemiczny DECADE™ w neurobiologii i naukach pokrewnych

Z dużo ponad 100 publikacjami, detektor DECADE™ jest jednym z najczęściej pojawiających się w publikacjach naukowych detektorów elektrochemicznych ECD dedykowanych do analizy neurotransmitterów, cukrów, fenoli i wielu innych grup związków. Wszystkie neurotransmitery takie jak monoaminy i metabolity, serotonina, GABA, glutaminian, histamina, aminokwasy, acetylcholina oraz cholina mogą być analizowane z najniższymi granicami oznaczalności w przeciągu kilku minut. Oferujemy połączenia detektora DECADE z chromatografami Shimadzu lub wersje specjalistycznych systemów o nazwie ALEXYS firmy Antec. Detektor DECADE może pracować w trzech trybach: PAD, DC oraz scan. Posiada unikalną funkcję ADF.



- **UHPLC: szybkość, wysoka sprawność**
- **Monoaminy i metabolity, GABA/Glu, Acetylcholina/Cholina**
- **Małe próbki, Femtomolowe granice wykrywalności dla MA**
- **Dostosowane do klienta opcje konfiguracji i zestawy kolumn i odczynników**

Analizator neurotransmitterów ALEXYS™ wykorzystuje niezwykle moc rozdzielczą jaką zapewniają pakowane kolumny z wypełnieniem ziarnem o średnicy ok. 2 μm. Ilości pulek, czasy retencji oraz wykrywalności zostały popchnięte do ich granic.



System bazuje na jednokanałowej konfiguracji z zestawami odczynników dla takich neurotransmiterów jak: noradrenalina, dopamina, serotonina oraz metabolity, GABA i glutaminian lub acetylcholina i cholina itd. Podstawowa konfiguracja może być jednak rozbudowana o szereg opcji dedykowanych do analizy każdej kombinacji neurotransmiterów.

Mikrodializy on-line

Stosując zewnętrzny zawór zamiast automatycznego podajnika próbek, system ALEXYS™ staje się idealnym do próbkowania bezpośrednio z przepływu mikrodializatu. Mikrodializa on-line daje unikalną możliwość uzyskania odpowiedzi zwrotnej w zakresie zmian neurochemicznych w czasie rzeczywistym. Wyjątkowo krótkie analizy w UHPLC umożliwiają tzw. wysoką rozdzielczość czasową.



System ALEXYS™ dedykowany do próbkowania i analizy mikrodializatu on-line

Poniżej zaprezentowano wybrane artykuły naukowe w których wykorzystano detektor DECADE Antec:

An improved microbore UHPLC method with electrochemical detection for the simultaneous determination of low monoamine levels in in vivo brain microdialysis samples

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CCNP Heinz Lehmann Award Paper: Interference with AMPA receptor endocytosis: effects on behavioural and neurochemical correlates of amphetamine sensitization in male rats

Fiona Y. Choi, Soyon Ahn, Yu Tian Wang, Anthony G. Phillips; *J Psychiatry Neurosci.* 2014 May; 39(3): 189-199

Region-specific deficits in dopamine, but not norepinephrine, signaling in a novel A30P α -synuclein BAC transgenic mouse

Tonya N. Taylor, Dawid Potgieter, Sabina Anwar, Steven L. Senior, Stephanie Janezic, Sarah Threlfell, Brent Ryan, Laura Parkkinen, Thierry Deltheil, Milena Cioroch, Achilleas Livieratos, Peter L. Oliver, Katie A. Jennings, Kay E. Davies, Olaf Ansorge, David M. Bannerman, Stephanie J. Cragg, Richard Wade-Martins; *Neurobiol Dis.* 2014 February; 62(100): 193-207

Loss of PINK1 enhances neurodegeneration in a mouse model of Parkinson's disease triggered by mitochondrial stress

Nicoleta Moiso, Valentina Fedele, Jennifer Edwards, L. Miguel Martins; *Neuropharmacology.* 2014 February; 77(100): 350-357

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