

Applications for ESA Products

Electroactive?	Application Notes	Tech Notes	Cust. HiLites	Clinical Methods	Validated Meth.
	Bibliography		Periodic Table		

■ How do I know if my compound is electroactive ?

Click here: [to view a model electroactive compound](#) or [to select a class of compounds](#) to review known electroactive species. Or, click on a specific Application area in the list below to view applications information.

| [Bioresearch](#) | [Clinical Methods/Research](#) | [Drugs and Pharmaceuticals](#) | [Environmental](#) | [Foods and Nutrition](#) |
| [General](#) | [Neurochemistry](#) | [Oxidative Metabolism](#) |

■ Bioresearch

<i>Title</i>	<i>Technique</i>
Acetylcholine in Brain Microdialysates	HPLC-ECD
Amino Acids (OPA/βME Derivatives)	HPLC-ECD
In Vivo Biogenic Amines	HPLC-ECD
An Improved Monoamine Method	HPLC-ECD
Sequential Analysis of Monoamines and Amino Acids in Microdialysis Perfusionates	HPLC-ECD
Biogenic Amines and Acid Metabolites- MDTM Mobile Phase- Type 2	HPLC-ECD
Antioxidants in Food	HPLC-ECD
Benidipine	HPLC-ECD
Simultaneous Analysis of Carotenoids, Retenoids etc. in Plasma	HPLC-ECD
Fractionated Urinary Catecholamines	HPLC-ECD
Plasma Catecholamines	HPLC-ECD
Catecholestrogens, Metabolites and Adducts	HPLC-ECD
7-HEG: A Catecholesterogen-Guanine Adduct	HPLC-ECD
Tea Catechins	HPLC-ECD
DHBAs and Salicylate	HPLC-ECD
Norepinephrine and Dopamine Measurement in Microdialysis Perfusionates	HPLC-ECD
Ultra Sensitive Analysis of DA and 5HT in Brain Microdialysates	HPLC-ECD
Regional Measurement of Dopamine and Norepinephrine	HPLC-ECD
Fast Analysis of Dopamine and Serotonin	HPLC-ECD
Fast Analysis of GABA	HPLC-ECD
Guanine Adducts	HPLC-ECD
Handbook of Lipids	HPLC-ELS
Measurement of Hydroxyl Free Radical (DHBAs and Salicylate)	HPLC-ECD
An Alternative Method for Hydroxyl Free Radical Measurement <i>In Vivo</i>	HPLC-ECD
4-Hydroxyxnonenal	HPLC-Fluoro
Total Plasma Homocysteine	HPLC-ECD
An Alternative Method for Plasma Homocysteine	HPLC-ECD
Measurements of Resveratrol, Kaemferol, Quercetin and Isorhamnetin in Human Plasma	HPLC-ECD
Phenolics & Flavonoids	HPLC-ECD

Malondialdehyde	HPLC-Fluoro
Measurement of 3-Nitrotyrosine	HPLC-ECD
Detection of Free Proanthocyanidins	HPLC-ECD
Analysis of Plasma and Tissue Phytoestrogens	HPLC-ECD
Analysis of Urinary Phytoestrogens	HPLC-ECD
Plasma & Whole Blood Thiols: Glutathione, Homocysteine, Cysteine and Cysteinyl-glycine	HPLC-Fluoro
Fat-soluble Vitamins	HPLC-ECD
Multivitamins in Tablets, Infant Formula and Milk	HPLC-ECD
25-Hydroxy Vitamin D3 in Plasma	HPLC-ECD

 [Page Top](#)

■ Clinical Methods

<i>Title</i>	<i>Technique</i>
Plasma Free Metanephrite Analysis	HPLC-ECD
Urinary Metanephrites	HPLC-ECD
Fractionated Urinary Catecholamines	HPLC-ECD
Lead Analysis in Blood	ASV
Simultaneous Determination of Urinary VMA, 5HIAA, HVA Without Extraction	HPLC-ECD

■ Clinical Research *For research use only!*

<i>Title</i>	<i>Technique</i>
Analysis of Urinary 5HIAA	HPLC-ECD
Carotenoid Isomers	HPLC-ECD
Deconvolution of Curry Powder Constituents	HPLC-ECD
Lipoic acid and DHBA in Food Supplements	HPLC-ECD
Tea Catechins	HPLC-ECD
Fat-soluble Vitamins	HPLC-ECD
25-Hydroxy Vitamin D3 in Plasma	HPLC-ECD
Total Plasma Homocysteine	HPLC-ECD
An Alternative Method for Plasma Homocysteine	HPLC-ECD
Measurements of Resveratrol, Kaempferol, Quercetin and Isoflavonoids in Human Plasma	HPLC-ECD
Multivitamins in Tablets, Infant Formula and Milk	HPLC-ECD
Analysis of Plasma and Tissue Phytoestrogens	HPLC-ECD
Analysis of Urinary Phytoestrogens	HPLC-ECD
Fractionated Urinary Catecholamines	HPLC-ECD
Plasma Catecholamines	HPLC-ECD
Plasma & Whole Blood Thiols: Glutathione, Homocysteine, Cysteine and Cysteinyl-glycine	HPLC-ECD
Simultaneous Analysis of Carotenoids, Retenoids etc. in Plasma	HPLC-ECD

Tryptophan Contamination	HPLC-ECD
Flavonoids and Phenolics	HPLC-ECD
Xenoestrogens- Bisphenols	HPLC-ECD
Detection of Free Proanthocyanidins	HPLC-ECD

[Page Top](#)

■ Drugs and Pharmaceuticals

<i>Title</i>	<i>Technique</i>
Acyclovir in Human Plasma	HPLC-ECD
Benidipine	HPLC-ECD
Carbohydrate Analysis in Beverages	HPLC-PAD
Detection of Chiral Compounds	HPLC-ECD
DNA Adduct Analysis	HPLC-ECD
Handbook of Lipids	HPLC-ELS
Tryptophan Contamination	HPLC-ECD
In Vivo Pharmacokinetics: Simultaneous Measurement of Drug Level and Metabolic Effects	HPLC-ECD
Tricyclic Antidepressants	HPLC-ECD
Vinca Alkaloids	HPLC-ECD
Fat-soluble Vitamins	HPLC-ECD
Yohimbine	HPLC-ECD

[Page Top](#)

■ Environmental

<i>Title</i>	<i>Technique</i>
Determination of Priority Phenols and Chlorophenols in Water by HPLC with Coulometric Electrochemical Array and UV Detection	HPLC-UV-ECD
Xenoestrogens- Bisphenols	HPLC-ECD
Explosives	HPLC-ECD
Measurement of Environmental Estrogens in Water- Analytical Methodology	HPLC-ECD
Phytoestrogens	HPLC-ECD

■ Foods and Nutrition

<i>Title</i>	<i>Technique</i>
Antioxidant Preservatives in Food	HPLC-ECD
Capsaicinoids	HPLC-ECD
Carbohydrate Analysis in Beverages	HPLC-ECD
Simple Carbohydrates	HPLC-ELS

Fat Soluble Vitamins	HPLC-ECD
Flavonoids & Phenolics	HPLC-ECD
Handbook of Lipids	HPLC-ELS
Nonionic Surfactants	HPLC-ELS
Oligosaccharides	HPLC-ELS
Polyethylene Glycol	HPLC-ELS
Phenolic Preservatives	HPLC-ECD
Phytoestrogens	HPLC-ECD
Tea Catechins	HPLC-ECD
Triglycerides	HPLC-ELS
Vitamin E, Tocopherols- Fat Soluble Vitamins	HPLC-ECD
VitaScan™	HPLC-ECD

 Page Top

■ General

<i>Title</i>	<i>Technique</i>
Acetylcholine Mobile Phase	HPLC-ECD
Bibliography of Redox References	HPLC-ECD
Coulometric Electrode	HPLC-ECD
Derivatives for HPLC-ECD	HPLC-ECD
Electrode and Photodiode Arrays	HPLC-ECD
Guidelines for Mobile Phase Selection and Preparation when using an EC Detector	HPLC-ECD
MD-TM Mobile Phase	HPLC-ECD
Biogenic Amines and Acid Metabolites- MDTM Mobile Phase- Type 2	HPLC-ECD
Microbore Analysis	HPLC-ECD
Prolonging Coulometric Cell Performance	HPLC-ECD
Ratio Accuracy	HPLC-ECD
Reference Electrode	HPLC-ECD
Troubleshooting Model 580/582 Pumps	HPLC
Water Polishing	HPLC-ECD
Working Electrode- Part 1	HPLC-ECD
Working Electrode- Part 2	HPLC-ECD

 Page Top

■ Neurochemistry

<i>Title</i>	<i>Technique</i>
Acetylcholine in Brain Microdialysates	HPLC-ECD
Amino Acids (OPA/βME Derivatives)	HPLC-ECD

In Vivo Biogenic Amines	HPLC-ECD
Biogenic Amines and Acid Metabolites- MDTM Mobile Phase- Type 2	HPLC-ECD
Sequential Analysis of Monoamines and Amino Acids in Microdialysis Perfusates	HPLC-ECD
An Improved Monoamine Method	HPLC-ECD
Supra-Coulometric Electrochemical Detection of Catecholamines at Sub-5 fg Levels	HPLC-ECD
Enkephalins	HPLC-ECD
Fast Analysis of Dopamine and Serotonin	HPLC-ECD
GABA	HPLC-ECD
Fast Analysis of GABA	HPLC-ECD
Measurement of Hydroxyl Free Radical (DHBAs and Salicylate)	HPLC-ECD
Norepinephrine and Dopamine in Microdialysis Perfusates	HPLC-ECD
Regional Measurement of Dopamine and Norepinephrine	HPLC-ECD
Ultra Sensitive Analysis of DA and 5HT in Brain Microdialysates	HPLC-ECD
Measurement of 3-Nitrotyrosine	HPLC-ECD

 Page Top

■ Oxidative Metabolism

<i>Title</i>	<i>Technique</i>
The ESA Handbook of Oxidative Metabolism	HPLC-ECD
Antioxidants in Food	HPLC-ECD
Catecholestrogens, Metabolites and Adducts	HPLC-ECD
Tea Catechins	HPLC-ECD
DHBAs and Salicylate	HPLC-ECD
Guanine Adducts	HPLC-ECD
An Alternative Method for Hydroxyl Free Radical Measurement <i>In Vivo</i>	HPLC-ECD
4-Hydroxynonenal	HPLC-Fluoro
7-HEG: A Catecholestrogen-Guanine Adduct	HPLC-ECD
Handbook of Lipids	HPLC-ELS
Malondialdehyde	HPLC-Fluoro
Measurement of 3-Nitrotyrosine	HPLC-ECD
Phenolics & Flavonoids	HPLC-ECD
Phytoestrogens	HPLC-ECD
Proanthocyanidins	HPLC-ECD
Fat -Soluble Vitamins	HPLC-ECD

 Page Top

■ Validated Methods

<i>Title</i>	<i>Technique</i>
<u>Vitascan™</u>	HPLC-ECD
<u>Vitascan™ K1</u>	HPLC-Fluoro
<u>8-Hydroxy-2'-Deoxyguanosine</u>	HPLC-ECD

Electroactive?	Application Notes	Tech Notes	Cust. HiLites	Clinical Methods	Validated Meth.
		Bibliography	Periodic Table		
Home	Up	Metabolomics	Site Search	Suggestions	Privacy Policy
			Terms of Use		

ESA Biosciences, Inc.*A Magellan Biosciences Company*

22 Alpha Road, Chelmsford, MA 01824 USA

An ISO 9001 / 13485 Certified Company

Phone: 978-250-7000 Fax: 978-250-7090 US Orders: 800-959-5095

E-mail: info@esainc.comComments: marketing@esainc.com

This web page was updated on July 10, 2006.
© 1996 - 2006 ESA, Inc. All rights reserved.