



RIA Product Catalogue

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Our Company

More than 30 years of experience in IVD (kits and instrumentation)

DiaSource ImmunoAssays (a BioVendor Group company), an international diagnostic company (Belgium), develops, manufactures and markets clinical diagnostic products in the field of endocrinology and infectious diseases. Core products are based on RIA and ELISA technology and also include reagents to be run on open ELISA automated analyzers as well as antibodies for use in in-vitro diagnostic assays. DiaSource has specific development and manufacturing programs for Vitamin D, Renin, Calcitonin and many others parameters. We also provide selected instrumentation: we offer ELISA reader, washer and shaker, along with open and closed fully automated ELISA platforms helping our customers to automate their tests. It is our ambition to use our 30 years of expertise in Antibody and Assay development to remain a well-known company of diagnostic immunoassays and instrumentation for the IVD market.

Mission

Our mission is to develop, manufacture and market a complete panel of quality immunoassays and instrumentation as accurate, reliable, diagnostic tools to detect and monitor endocrine disorders and infectious diseases. We are dedicated to provide highly reliable quality assays and instrumentation to deliver uncompromising support to our customers. We strive for meeting our customers needs through a long-term professional relationship and by offering a real added value. Our company is driven by commitment to quality of products and services.

Product range

During the last 30 years, we have developed manual ELISA and RIA immunoassays for the diagnosis and monitoring of a wide variety of endocrine disorders. We constantly rework and develop specific antibodies for use in our diagnostic assays. In addition we offer these antibodies also to other diagnostic companies. Constantly looking for new technologies and applications, we put our expertise in the development of new antibodies (patent pending) and assays to measure 25OH Total Vitamin D (D2+D3). We strengthen our position in the diagnostic market by validating our ELISA assays on our open and closed automates. This innovation marks a turning point for our company, and makes of DiaSource, already renowned in the RIA market, a complete diagnostic provider. The interest in Vitamin D is rising rapidly. Since more than 10 years DiaSource manufactures immunoassays for 25OH Vitamin D3 and 1,25(OH)₂ Vitamin D. In our assay development program, we are focusing specifically on new Vitamin D assays. We introduced a new Total Vitamin D (D2+ D3) RIA and ELISA assay, an innovative free 25OH Vitamin D ELISA kit, together with a Rat 25OH Vitamin D Elisa kit for clinical research studies. The ELISA versions can also be applied on our instruments.

Commitment to quality

We believe that the quality of products and services finds its origin in scientific expertise, good organization of all operational activities and in well-structured decision processes. These principles are laid out in our ISO 13485:2016 quality manual. Through the integration of product quality in our development and manufacturing processes and a specific customer-oriented approach, we have directed our quality system to comply with the harmonized standard for quality systems within the context of the European Directive for In Vitro Diagnostics. Our internal quality management system is designed to pursue a continuous improvement of our customer service, our product quality and the efficiency of our operations. All our kits and instruments for in-vitro diagnostics (IVD) carry the CE mark and comply with IVD Directive requirements.

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Peter Kerckx International Sales Director & Business Segment Manager RIA DiaSource ImmunnoAssays S.A.

Beatrice de Borman CEO DiaSource ImmunoAssays S.A.

To contact us

Our people, our professional and experienced Customer Service and Technical Support teams are dedicated to ensure complete customer satisfaction. We take pride in providing helpful and accurate information in a 24-hour turnaround time.



Béatrice de Borman beatrice.deborman@diasource.be

Customer Service / Ordering

customer.service@diasource.be / +32 (0)10 84 99 00



Manuelle Jadoul



Isabelle Rosman



Muriel Hirsoux



Marie-France Sanchez



Sabrina Baio



Tania Cabrera

International Sales Director

peter.kerckx@diasource.be

Peter Kerckx

David Degels

+32 (0)494 94 34 83

+32 (0)475 57 76 86

& Business Segment Manager RIA

Business Segment Manager ELISA,

Antibodies & Instrumentation

david.degels@diasource.be





Marketing Project Coordinator Joëlle Bock +32 (0)10 84 99 13 joelle.bock@diasource.be





instrumentation@diasource.be





Service Engineer junior Olivier Pêtre +32 (0)478 78 32 98 +32 (0)10 84 99 76 instrumentation@diasource.be



Sales Manager Latinoamerica Olga Lucia Guayacan +57 32 358 759 50 olga.guayacan@diasource.be



Sales Director Spain & Latino America Pere Carbó +34 618 566 458 pere.carbo@diasource.be



Product Manager Valérie Preud'homme +32 (0)494 71 35 21 +32 (10) 84 99 23 products.support@diasource.be



Quality & Regulatory Affair Manager Didier Giffroy +32 (0)10 84 99 16 didier.giffroy@diasource.be



Sales Manager France & District Manager Wallonia Laurent Augis +32 (0)479 70 00 72 +33 6 85 60 17 85 laurent.augis@diasource.be

Autoimmunity

Autoimmunity is the failure of an organism to recognize its own constituent parts as self, which results in an immune response against its own cells and tissues. Any disease that results from such an aberrant immune response is termed an autoimmune disease. Prominent examples include Coeliac disease, diabetes mellitus type 1 (IDDM), systemic lupus erythematosus (SLE), Sjögren's syndrome, Churg-Strauss Syndrome, multiple sclerosis (MS), Hashimoto's thyroiditis, Graves' disease, idiopathic thrombocytopenic purpura, and rheumatoid arthritis (RA).

Hashimoto's Thyroiditis

The body normally produces antibodies against foreign substances such as bacteria; however, some people are found to have antibodies against their own thyroid tissue. A condition known as Hashimoto's Thyroiditis is associated with a high level of these thyroid antibodies in the blood. Whether the antibodies cause the disease or whether the disease causes the antibodies is not known; however, the finding of a high level of thyroid antibodies is a strong evidence of this disease. Occasionally, low levels of thyroid antibodies are found with other types of thyroid disease. When Hashimoto's thyroiditis is present under the form of a thyroid nodule rather than a diffuse goiter, the thyroid antibodies may not be present.

Myasthenia gravis (MG)

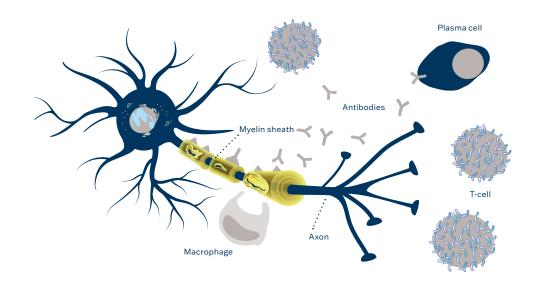
Is a skeletal muscle disorder characterized by muscular weakness. In such cases, muscular weakness is due to anti-acetylcholine receptor (AChR) antibodies. Anti-AChR antibodies are present in approximately 90% of patients with MG.

Anti-AChR antibodies could be:

- binding antibodies (multitudes of wide populations of antibodies directed to hydrophilic domains of receptors)
- blocking antibodies (preventing binding of acetylcholine to receptors)
- modulating antibodies (accelerating endocytosis resulting in loss of receptors).

Thyroid Antibody	Acronym	Present in
Thyroid peroxidase antibody	TPOAb	Hashimoto's thyroiditis; Graves' disease
Thyroglobulin antibody	TgAb	Thyroid cancer; Hashimoto's thyroiditis
Thyroid stimulating receptor antibody	TRAb	Graves' disease

Autoimmune disease

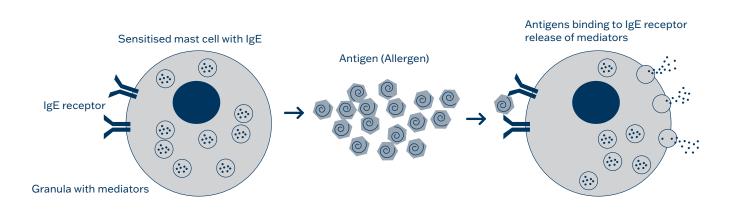


Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
			Acetylcho	oline Rec	eptor Aut	oantibody (AChR	RAb)		
RRA	KIPIB21021	100 T	S - P	20	2	0,2-8 nmol/L	0,01 nmol/L	3	10
RIA	RBA-25*	25 T	S	5	2	0.25-8 nmol/L	0.02 nmol/L	4.5	7
RIA	RBA-100*	100 T	S	5	2	0.25-8 nmol/L	0.02 nmol/L	4.5	7
					Anti-ds Dl	NA			
RIA	KIPIB19011	100 T	S	25	2	3-80 IU/mL	2.5 IU/mL	1,25	10
Anti-GAD65									
RIA	KIPM2071	50 T	S	20	2	1-120 U/mL	0,7 U/mL	3,5	5,5
RIA	KIPM2070	100 T	S	20	2	1-120 U/mL	0,7 U/mL	3,5	5,5
					Anti-IA2	2			
RIA	KIPM2050	50 T	S	20	2	0 - 60 U/mL	0,8 U/mL	ON	5,5
Insulin AutoAntibody (IAA)									
RIA	KIP0091	100 T	S - P	100	3	0-100 %	<8,2%	2,25	8
RIA	KIPM2035	100 T	S	20	2	0,4 - 50 U/mL	0,2 U/mL	ON	4,5
			Anti-Ti	hvroglob	ulin AutoA	Antibodies (Tg Ab))		
RIA CT	R-CI-100	96 T	S	20	2	20-2000 IU/mL	6 IU/mL	1,5	9
			Anti-Thy	roperoxic	lase Auto	Antibodies (TPO	Ab)		
RIA CT	R-CO-100	96 T	s	20	2	40-1000 IU/mL	7,4 IU/mL	1,5	9
DIA			scle Spec	-		se (MusK) Autoar	-		C
RIA	MSK-25*	25 T	5	15	2	/	0.0023 nmol/L	ON + 5	6
		Р-Туре	Voltage-	Gated Ca	lcium Cha	annel (VGCC) Au	toantibody		
RIA	LEM-25*	25 T	S	15	2	/	2.86 pmol/L	2.5	9
			TSI	H Recept	or Autoar	ntibody (TRAb)			
RIA CT	KIPM2042	100 T	S	100	2	1 - 50 IU/L	0,17 IU/L	2	6,5
RIA	TCT-60*	60 T	S	100	2	1-40 IU/L	0.33 IU/L	3	7
RIA	TCT-100*	100 T	S	100	2	1-40 IU/L	0.33 IU/L	3	7
		Volt	age-Gate	d Potassi	ium Chan	nel (VGKC) Autoa	antibody		
RIA	VGK-25*	25 T	S	15	2	/	4.5 pmol/L	ON + 3	8

 \star Not available for Japan, China, Hong Kong, Taiwan, US , Canada and UK ON=Over night - P=Plasma - S=Serum

Biogenic Amines

Biogenic amine is a chemically imprecise term, which, by convention, includes the catecholamines: **Epinephrine** (or **Adrenaline**), **Norepinephrine** (or **Noradrenaline**) and **Dopamine**, the indoleamine Serotonin, the imidazolamine Histamine and compounds closely related to each of these. They are produced by decarboxylation of amino acids. These biogenic amines play key roles in neurotransmission and other signalling functions.



Catecholamines

The principal catecholamines are norepinephrine (noradrenaline), epinephrine (adrenaline) and dopamine. These compounds are formed from phenylalanine and tyrosine. Tyrosine is produced in the liver from phenylalanine through the action of phenylalanine hydroxylase. The tyrosine is then transported to catecholamine-secreting neurons where a series of reactions convert it into dopamine, into norepinephrine and finally into epinephrine. The measurement of catecholamines in biological fluids ("biogenic amines") is routinely performed for the diagnosis of biogenic amine-secreting tumors (i.e., pheochromocytoma, neuroblastoma). Pheochromocytoma, a tumor of the chromaffin tissue, is associated with the presence of greatly increased plasma and urinary catecholamine concentrations. Elevated catecholamines have also been found in patients with other tumors of neural tube origin, such as neuroblastomas and ganglioneuroblastomas.

Histamine

Histamine is the most important mediator in human and is mostly found in the initial phase of anaphylaxis ("immediate type" allergy). Histamine acts predominantly on smooth muscles and blood vessels.

Major effects include widespread arteriolar dilation, local increased capillary permeability by contracting endothelial

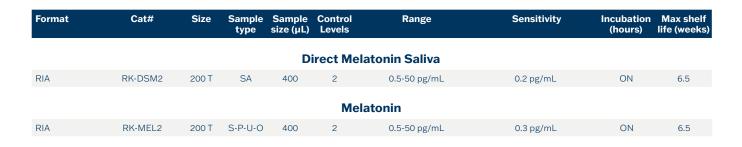
cells, contraction of nonvascular smooth muscles, bronchoconstriction, chemotaxis for eosinophils, blocking T lymphocyte function and gastric acid secretion.

Nephrines

Normetanephrine and metanephrine are physiologically formed from the catecholamines noradrenaline and adrenaline by the enzyme catechol-O-methyltransferase (COMT). Increased levels of normetanephrine and metanephrine can be found in patients suffering from pheochromocytoma, ganglio - neuroma and other neurogenic tumors.

Assessment of Biogenic Amines

The concentrations of catecholamines may be determined in serum, plasma, urine, other body fluids and even in cell culture supernatants. The most commonly used methodology is HPLC combined with electrochemical detection. However, this methodology is subject to analytical error, when synthetic sympatho-mimetic therapeutic agents, in comparatively high concentrations, interfere with the quantitative determination of endogenous catecholamines. Peaks arriving from these synthetic agents will mask the biogenic amine peaks, making exact determinations almost impossible. An alternative and more specific method for the determination of biogenic amines in any type of sample is immuno-assay, whether as radioimmunoassay (RIA) or enzyme immunoassay (ELISA).





Bone Metabolism

Bones are continuously undergoing a dynamic process of resorption and absorption known as **bone metabolism**. Signaling pathways on which bone metabolism relies include the action of several hormones, including Osteocalcin, Parathyriod Hormone (PTH) and Vitamin D.

As **Osteocalcin**, the major non-collagenous protein of the bone matrix, is manufactured by osteoblasts, it is often used as a biochemical marker, for the bone formation process. A arge number of studies indicate that serum-osteocalcin levels reflect very well the rate of bone formation.

The determination of blood levels of Osteocalcin is valuable for:

- The identification of women at risk of developing osteoporosis
- Monitoring bone metabolism in several clinical conditions:
 - during peri- and post menopause
 - during Hormone Replacement Therapy
 - patients with GH deficiency, Renal osteodystrophy

Parathyroid Hormone (PTH) or Parathormone

Is secreted by the parathyroid glands as a polypeptide containing 84 amino acids and is the major physiological regulator of phosphocalcic metabolism. It acts to increase the concentration of calcium (Ca2+) in the blood.

Measurements of PTH is used in:

- Diagnose hyperparathyroidism (elevated levels of intact PTH)
- Differentiation between hypoparathyroidism and hypercalcemia
- It allows documenting the occurrence of secondary hyperparathyroidism in patients with Vitamin D deficiency, intestinal malabsorption, or renal failure.

Aggrecan (PG)

Is the predominant proteoglycan species in articular cartilage.

The loss of PG and other matrix components from the cartilage leads to destruction of the tissue, causing complete deterioration of the articular surface. PG and PG fragments released in synovial fluid and serum during this degradation process might serve as markers of the metabolic changes in diseased cartilage.

The DiaSource Aggrecan ELISA assay provides an easy, non-invasive methodology for the quantification of cartilage turnover. It can also be used for the monitoring of the effect of drugs on the cartilage turnover.

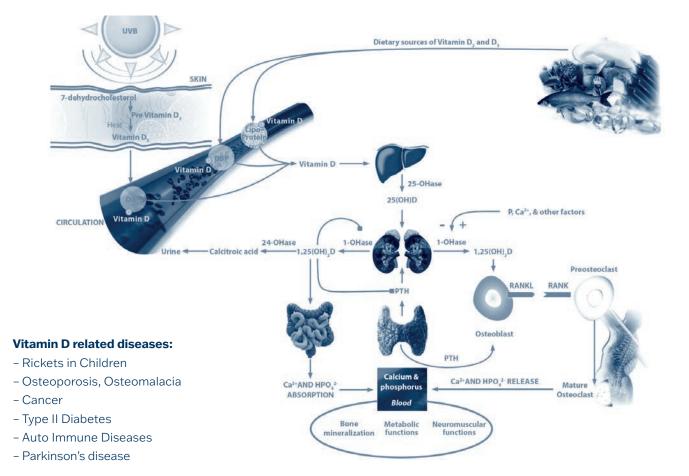
Vitamin D

Plays an important role in the maintenance of major organ systems: Vitamin D regulates the calcium and phosphorus levels in the blood and inhibits parathyroid hormone secretion from the parathyroid gland. Vitamin D deficiency can result from inadequate intake coupled with inadequate sunlight exposure, conditions that impair conversion of vitamin D into active metabolites, such as liver or kidney disorders, or, rarely, by a number of hereditary disorders. Deficiency results in impaired bone mineralization, and leads to bone softening diseases, rickets in children and osteomalacia in adults, and possibly contributes to osteoporosis. Research has also indicated that vitamin D deficiency is linked to colon cancer and more recently, to breast cancer. Conflicting evidence links vitamin D deficiency to other forms of cancer.

The major form of Vitamin D, 25OH Vitamin D, has a limited biological activity and is converted in the kidney into 1,25(OH)₂ Vitamin D a more active derivate. The blood levels of 1,25(OH)₂ D being 100 to 1000 less than 25OH D, extraction and separation steps are required prior to measurement.

Free 25OH Vitamin D represents the tiny fraction that circulates as the free form. It is considered to be a better biomarker than 25OH Vitamin D in some conditions.

Physiology of vitamin D



Patient status	ng/mL of 25(OH) Vit D*
Vit D Deficiency	< 10
Vit D Insufficiency	10 - 30
Vit D Sufficiency	> 30 - 100
Risk for Toxicity	> 100

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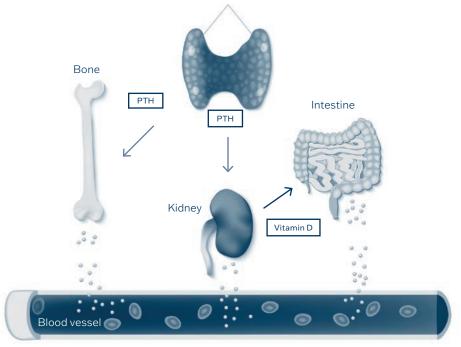
*Based on a vast majority of clinical studies to define normal circulating 25 OH VIT D levels e.g. US National health and Nutrition Examination Survey (US NHANES-study)



Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
Osteocalcin									
IRMA	KIP1381	96 T	S-P	50	2	1,9-69 ng/mL	0,22 ng/mL	2	7
Intact Parathyroid Hormone (PTH)									
IRMA	KIP1491	96 T	S - P	300	2	13-1562 pg/mL	1,7 pg/mL	2	9
1,25(OH) ₂ Vitamin D									
RIA CT	KIP1929	48 T	S-P	500	2	6-430 pg/mL	0,5 pg/mL	ON	10
	3019700 set including solvents for 5 kits of 1,25(OH) ₂ Vitamin D								
	4300604 shaker for extraction (IKA Vibrax 1200 RPM)								
	4300605 support rack for tubes (to be used with shaker)								
	102491 extra cartridges for extraction in single (1 bag of 20 cartridges)								
				2	250H Vita	amin D Total			
RIA CT	KIP1971	96 T	S	25	2	5,8-100 ng/ml	1,9 ng /ml	3	8
				Proc	ollagen II	l peptide (PIIIP)			
RIA	OCFK07-PIIIP	100 T	S-P	20	1	0.1 -14 U/mL	0.1 U/mL	5	6
					UniQ	PINP*			
RIA	67034	100 T	S	50	2	5-250 µg/L	2 µg/L	2.75	5
					UniQ	PIIINP*			
RIA	68570	100 T	S	200	1	1-50 µg/L	0.4 µg/L	2.75	4
					UniQ	ICTP*			
RIA	68601	100 T	S	100	2	1 -50 µg/L	0.6 µg/L	4	5

Parathyroid Glands

Parathyroid Glands (located on the back of the thyroid gland)



ON=Over night - P=Plasma - S=Serum * Not available for Austria, Czech Republic, Germany, France, United Kingdom, Italy, Japan, Netherlands, Norway, Sweden, USA, New Zealand

Cancer Markers

Serum tumor markers is a term commonly used to refer to molecules that can be detected in a blood sample by immunochemical methods. Tumor markers are produced either by the tumor (cancer) itself or by the body in response to the presence of cancer or certain non-cancerous (benign) conditions.

Measurements of tumor marker levels by serum markers can be useful in following clinical settings

Diagnosis

Serum tumor markers can, when used along with X-rays or other tests, aid in diagnosis of some types of cancer. They also can aid in locating the source of cancers that have metastasized.

Monitoring for recurrence of tumor

After successful treatment of a cancer patient, tumor marker(s) are regularly tested to indicate whether there is a recurrence of the cancer.

Prognosis and staging

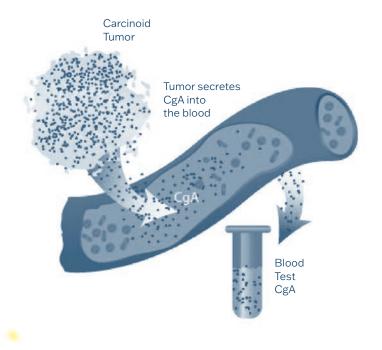
Serum tumor markers can be used as aid in the tumor volume estimation, as a helpful tool to indicate tumor progression, or as indicator of metastasis involvement.

Detection of residual disease

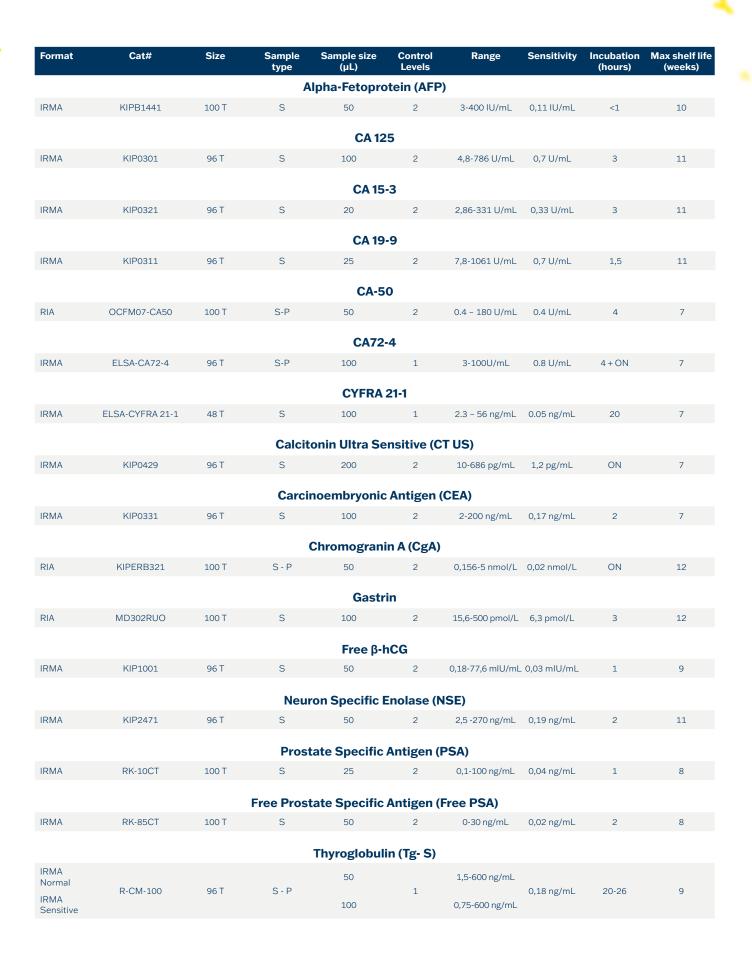
After surgery of a specific cancer, serum tumor markers can be used to indicate whether the entire tumor burden has been successfully removed.

Monitoring treatment

Serum tumor markers can be used as tool to assess the outcome of a treatment by monitoring a patient's response to a specific or various treatment regimens. In general, serum marker levels will drop if treatment is beneficial and will remain elevated or increased when treatment is not effective. Currently, the main use of tumor markers is to assess a cancer's response to treatment and to check for recurrence.



Cancer marker	Clinical use
AFP (Alpha-Fetoprotein)	Testicular Cancer, Ovarian cancer, Malignant teratoma
CA 125	Ovarian cancer, Endometrial cancer
CA 15-3	Breast cancer
CA 19-9	Pancreatic cancer, Colorectal cancer
CEA (Carcinoembryonic Antigen)	Colorectal cancer, Lung cancer, Breast cancer
CgA (Chromogranin A)	Small Cell Lung Carcinoma (SCLC), Tumors of neuroendocrine origin
CT US (Calcitonin Ultra Sensitive)	Medullary Thyroid Carcinoma (MTC)
Gastrin	Gastrin producing tumors
Free β-hCG (Free β-Human Chorionic Gonadotropin)	Throphoblastic cancer, Testicular cancer
NSE (Neuron Specific Enolase)	Medullary Thyroid Carcinoma (MTC), Pancreatic islet cell cancer, Small Cell Lung Cancer (SCLC)
Tg-S (Thyroglobuline)	Small Cell Lung Cancer (SCLC), Thyroid cancer



Cardiovascular & Salt Balance

The renin-angiotensin system (RAS) orthe renin-angiotensin-aldosterone system (RAAS)

(RAAS) is a hormone system that regulates blood pressure and water (fluid) balance. Renin activates the renin-angiotensin system by cleaving angiotensinogen, produced by the liver, to yield angiotensin I, which is further converted into Angiotensin II by ACE (Angiotension Converting Enzyme). The most important site for Renin release is the kidney. Angiotensin also stimulates the secretion of the hormone **Aldosterone** from the adrenal cortex. Aldosterone causes the tubules of the kidneys to retain sodium and water. This increases the volume of fluid in the body, which also increases blood pressure. If the renin-angiotensin-aldosterone system is too active, blood pressure will be too high. Angiotensin II also stimulates the release of vasopressin (antidiuretic hormone, ADH) from the pituitary which acts upon the kidneys to increase fluid retention.

Vasopressin (ADH)

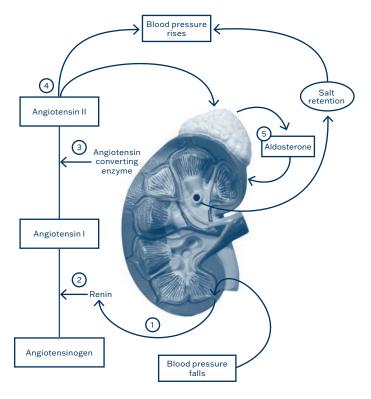
Also known as Arginine vasopressin (AVP), vasopressin, argipressin or antidiuretic hormone (ADH), is a cyclic nanopeptide with a molecular weight of 1083 Daltons. Most of it is stored in the posterior pituitary to be released into the blood stream; however, a part of it is also released directly into the brain.

One of the most important roles of Vasopressin is to regulate the body's retention of water: when the body is dehydrated. Vasopressin is released causing the kidneys to conserve water, thus concentrating the urine, and reducing urine volume. It also involved in the blood circulation because it increases the resistance of the peripheral vessels and thus increases arterial blood pressure. Vasopressin released within the brain has many actions. It is suggested that ADH has been implicated in memory formation, including delayed re-flexes, image, short- and long-term memory.

Adrenocorticotropic Hormone (ACTH)

Is released intermittently from the anterior pituitary (adenohypophysis). ACTH circulates in plasma without any obvious binding to transporting peptide and, like other small protein hormones, disappears rapidly from blood with a half-life of 5 to 10 minutes in vivo. The production of ACTH by the pituitary is primarily under the influence of three factors: the level of cortisol-like steroids, a biologic clock, and stress. When the cortisol level increases, the production of ACTH decreases, due to a negative feed-back control.

Associated medical conditions are: Addison's disease, Cushing's syndrome, Congenital Adrenal hyperplasia.



Cortisol Binding Globulin (CBG) or Transcortin

A plasma α1-glycoprotein with a molecular weight of approximately 52000 Daltons. Since the plasma concentration of transcortin varies between 0.4 and 2.5 106 M, the major fraction of cortisol in plasma is bound to this protein. This transcortin-bound cortisol is considered to be biologically inactive, whereas the unbound cortisol constitutes the active form of cortisol. Transcortin is produced by the liver and is regulated by estrogens. Therefore, plasma transcortin levels increase during pregnancy, and are decreased in cirrhosis cases.



Fetuin

A glycoprotein present in the circulation and synthesized by hepatocytes. It is the most important and major calcification regulating protein in the circulation. Fetuins are blood proteins, which are made in the liver and transferred into the blood stream. They belong to a large group of binding proteins mediating the transport and availability of a wide variety of cargo substances in the blood stream (e.g. Serum Albumin). The function of inhibiting soft tissue calcification is achieved by forming a soluble colloidal microsphere of fetuin-calcium-phosphate complex in the bloodstream.

11-DESOXYCORTISOL (or cortodoxone)

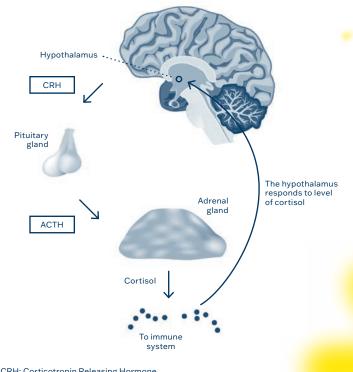
Is a steroid, and an immediate precursor to the production of cortisol. It can be synthesized from 17-hydroxyprogesterone.

Used clinically in:

a) the diagnosis, and monitoring therapeutic response in, congenital adrenal hyperplasia due to 11b-hydroxylase deficiency

b) the assessment of adrenal response to in the metyrapone test.

Stress reponse system



CRH: Corticotropin Releasing Hormone ACTH: Adrenocorticotropic Hormone

Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
Adrenocorticotropic Hormone (ACTH)									
IRMA	KIP0061	96 T	EP	200	2	9,6-1932 pg/mL	1,16 pg/mL	3	7
Aldosterone									
			S	200					
RIA CT	R-CW-100	96 T	U (100 (hydrolyzed)	1	25-1500 pg/mL	1,4 pg/mL	ON or 3	9
Angiotensin I									
RIA CT	KIPB3518	100 T	Р	400	1	0,3-30 ng/mL	0,07 ng/mL	2	8
RIA CT	KIP5361	96 T	EP	500	2	0,3-28 ng/mL	0,06 ng/mL	З	8
Angiotensin II									
RIA	RB320	100 T	Р	1000	2	4,7-150 pmol/L	2 pmol/L	ON	12
Corticosteroid Binding Globulin (CBG)									
RIA CT	KIP1809	96 T	S	100	2	0,44-8 µg/mL	0,28 µg/mL	2,5	7
					Cortis	ol			
RIA CT	KIPI28000	96 T	S - P - U - Sa	25 μL 200 μL	2	17-450 μg/L 0,9-45 μg/L	0,9 μg/L 0,53 μg/L	0,75 3	12
				11-	Desoxyc	ortisol			
RIA CT	KIPI20000	96 T	S	25	2	0,3-65 ng/mL	0,04 ng/mL	2,5	12
				F	Renin (Ac	tive)			
IRMA	KIP1531	96 T	EP	300	2	4-520 pg/mL	0,78 pg/mL	3	6
				Vasoacti	ve Intest	inal Peptide			
RIA	RB311	100 T	EP	200	2	3,8-120 pmol/L	3 pmol/L	48	12
					Vasopre	ssin			
RIA	KIPERB319	100 T	P - U	1000	2	1,9-60 pmol/L	0,5 pmol/L	48	12

Diabetes & Metabolism

Diabetes mellitus

Is a disorder of carbohydrate metabolism. It is a disease characterized by persistent hyper-glycemia (high blood sugar levels). It is a metabolic disease that requires medical diagnosis, treatment and lifestyle changes.

There are three main forms of diabetes: Type 1, Type 2 and gestational diabetes (or Type 3, occurring during pregnancy), although these three "types" of diabetes are more accurately considered patterns of pancreatic failure rather than single diseases.

- Type 1 is due to autoimmune destruction of the insulin-producing cells
- Type 2 and gestational diabetes are due to insulin resistance by tissues

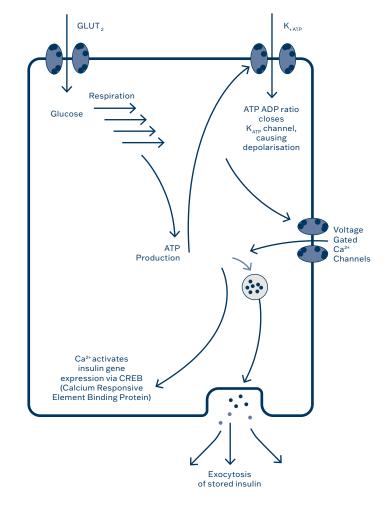
Type 2 may progress to destruction of the insulin producing cells of the pancreas, but is still considered Type 2, even though insulin administration may be required.

Since insulin is the principal hormone that regulates uptake of glucose into most cells from the blood (primarily muscle and fat cells, but not central nervous system cells), deficiency of insulin or the insensitivity of its receptors plays a central role in all forms of diabetes mellitus. Diabetes is a chronic disease, and emphasis is on managing short-term as well as long-term diabetes-related problems. There is an important role for patient education, nutritional support, self glucose monitoring, as well as long-term glycemic control.

Obesity

Obesity is a condition in which the natural energy reserve, stored in the fatty tissue of humans and mammals, is increased to a point where it is a risk factor for certain health conditions or increased mortality.

Obesity develops from the interaction of individual biology and the environment. Excessive body weight has been shown to correlate with various diseases, particularly cardiovascular disease, diabetes mellitus Type 2, sleep apnea, and osteoarthritis. Obesity is both an individual clinical condition and is increasingly viewed as a serious public health problem.





Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
Anti-GAD65									
RIA	KIPM2071	50 T	S	20	2	1-120 U/mL	0,7 U/mL	3,5	5,5
RIA	KIPM2070	100 T	S	20	2	1-120 U/mL	0,7 U/mL	3,5	5,5
Anti-IA2									
RIA	KIPM2050	50 T	S	20	2	0-60 U/mL	0,8 U/mL	ON	5,5
Insulin AutoAntibody (IAA)									
RIA	KIP0091	100 T	S - P	100	3	0-100 %	< 8,2%	2,25	8
RIA	KIPM2035	100 T	S	20	2	0,4-50 U/mL	0,2 U/mL	ON	4,5
C-Peptide (C-PEP)									
RIA CT	KIP0409	96 T	S	100	2	0,09-9,94 pmol/mL	0,04 pmol/mL	3	8
RIA	07-152101	105 T	EP	Glucag	2 2	2E 2000 pg/ml	14 E p.g./ml	ON	5
RIA	RB310	125 T 100 T	P	200	2	25-2000 pg/mL 4,7-150 pmol/L	14,5 pg/mL 3 pmol/L	48	5
RIA	RD310	1001	P	200	2	4,7-150 pm0i/L	3 pmol/L	40	12
				Insulin (INS)				
IRMA	KIP1251	96 T	S	50	2	5,7-440 µIU/mL	1 µIU/mL	2	10
IRMA	KIP1254	384 T	S	50	2	5,7-440 µIU/mL	1 μIU/mL	2	10
				Lepti	n				
RIA CT	KIPMR44	125 T	S - P	25	1	1-64 ng/mL	0,1 ng/mL	15	12
			F	Pancreatic Po	lypeptid	e			
RIA	RB316	100 T	S	100	2	6,25-200 pmol/L	3 pmol/L	48	12
				Trypsi	n*				
RIA	KIRCE07	100 T	S	100	1	36-1560 ng/mL	4 ng/mL	4	9
						Ŭ	0		



Fertility

In order to understand the causes of infertility and the role that modern infertility treatment plays in assisting conception, it is useful to look at the natural process - a woman's ovulatory cycle and the production of sperm in the male - and the hormones implied in those processes.

The gonadotropins are hormones that primarily affect the ovaries and the testes. They regulate the development and hormone-secreting functions of these organs.

Three gonadotropins are essential to reproduction: human Follicle Stimulating Hormone (hFSH), human Luteinizing Hormone (hLH) and human Chorionic Gonadotropin (hCG). FSH and LH are secreted by the pituitary gland situated beneath the brain. Their secretion is controlled by another hormone, the Gonadotropin-Releasing Hormone (GnRH) produced by the hypothalamus. hCG is primarily produced by the placenta following successful implantation, and plays a role in maintaining pregnancy.

Androgen is the generic term for any natural or synthetic compound, usually a steroid hormone, that stimulates or controls the development and maintenance of masculine characteristics in vertebrates by binding to androgen receptors. This includes the activity of the accessory male sex organs and development of male secondary sex characteristics. Androgens, which were first discovered in 1936, are also called androgenic hormones or testoids. Androgens are also the original anabolic steroids. They are the precursor of all estrogens, the female sex hormones. The primary and most well-known androgen is testosterone.

A subset of androgens, adrenal androgens, includes any of the 19-carbon steroids synthesized by the adrenal cortex, the outer portion of the adrenal gland (zonula reticularis – innermost region of the adrenal cortex), that function as weak steroids or steroid precursors, including dehydroepiandrosterone (DHEA), dehydroepiandrosterone sulfate (DHEA-S), and androstenedione.

Dehydroepiandrosterone (DHEA)

A steroid hormone produced in the adrenal cortex from cholesterol. It is the primary precursor of natural estrogens.

Androstenedione

An androgenic steroid produced by the testes, adrenal cortex, and ovaries. While androstenedione is converted metabolically into testosterone and other androgens, they are also the parent structure of estrone.

Androstenediol and androstanediolglucuronide

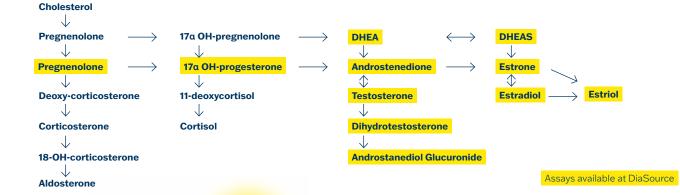
Steroid metabolites that are thought to act as the main regulators of gonadotropin secretion.

Androsterone

A chemical by-product created during the breakdown of androgens, or derived from progesterone, that also exerts minor masculinising effects, but with one-seventh the intensity of testosterone. It is found in approximately equal amounts in the plasma and urine of both males and females.

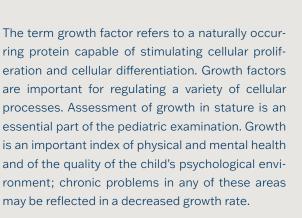
Dihydrotestosterone (DHT)

A metabolite of testosterone, and a more potent androgen than testosterone that binds more strongly to androgen receptors. It is produced in the adrenal cortex.



Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
Androstane Diol Glucuronide RIA CT									
RIA CT	KIP0151	96 T	S - P	100	2	0,2-75 ng/mL	0,05 ng/mL	2	10
Androstenedione									
RIA CT	KIP0451	96 T	S - P	25	2	0,1-11 ng/mL	0,03 ng/mL	1	10
			Dehyd	roepiand	rosteron	e- Sulfate (DH	IEA-S)		
RIA CT	KIP0481	96 T	S	10	2	1,7-1090 µg/dL	1,23 µg/dL	1	10
			D	ehvdroer	niandros	terone (DHEA))		
RIA CT	KIPB1138	100 T	S - P	300	0	0,5-35 ng/mL	0,17 ng /mL	1	8
DIA OT	KIDOGOO	0.C T	C C		tradiol, 1		07.4	2	10
RIA CT	KIP0629	96 T	S	50	2	9-3900 pg/mL	2,7 pg/mL	3	10
					Estrone				
RIA CT	KIPI9100	96 T	S - P	100	2	15-815 pg/mL	3,2 pg/mL	2	12
Total Estrogens									
RIA	07-140202	100 T	S - P	600		5-200 pg/mL		3,5	8
Follicle Stimulating Hormone (FSH)									
IRMA	KIP0841	96 T	S - P	100	2	0,7-152 mIU/mL	0,1 mIU/mL	1	9
Chorionic Gonadotropin + β (hCG+ β)									
IRMA	KIP0981	96 T	S - P	50	2	4,2-835 mIU/mL	1,6 mIU/mL	0,5	7
				Lutaini	ing Hor	mone (LH)			
IRMA	KIP1311	96 T	S	100		1,8-194 mIU/mL	0,2 mIU/mL	1	9
							-,,		
DIA OT	1/101 150	0.6 T	0	-		e (PROG)	0.05 ()		10
RIA CT	KIP1458	96 T	S	50	2	0,12-36 ng/mL	0,05 ng/mL	2	10
			Pro	gesteron	e, 17 α H	ydroxy- (1 <mark>7-O</mark> F	IP)		
RIA CT	KIP1409	96 T	S - P	25	2	0,17-14 ng/mL	0,03 ng/mL	3	10
				Р	rolactin	(PRL)			
IRMA	KIP1441	96 T	S - P	25	2	2,9-205 ng/mL	0,18 ng/mL	2	9
			Sex	Hormone	Binding	Globulin (SH	BG)		
IRMA	R-CC-100	96 T	S	20	1	10-250 nmol/L	0,26 nmol/L	1,5	9
				-	Festoste	rone			
RIA CT	KIP1709	96 T	S	50	2	13,1 - 2250 ng/dL	0,05 ng/mL	3	10
						_			
	KIDI10000		C		tosteron		0.00 mg/ml	0	10
RIA CT	KIPI19000	96 T	S	50	2	0,3-90 pg/mL	0,08 pg/mL	2	12
						Dihydro (DHT)			
RIA	KIPI9900	100 T	S - P	300	2	25-2500 pg/mL	20 pg/mL	1,50	12

Growth Factors



Growth hormone (GH or somatotropin)

Is a polypeptide hormone synthesised and secreted by the anterior pituitary gland which stimulates growth and cell reproduction in humans and other vertebrate animals.

The diseases resulting of GH excess are pituitary tumor, muscle weakness, insulin resistance or even a rare form of Type 2 diabetes, and reduced sexual function. GH deficiency induces growth failure and short stature in children while in adults, it may induce deficiencies of strength, energy, and bone mass, as well as increased cardiovascular risks.

The Insulin-like Growth Factors (IGFs)

Are polypeptides with high sequence similarity to insulin. IGFs are part of a complex system that cells use to communicate with their physiologic environment. This complex system (often referred to as the IGF "axis") consists of two cell-surface receptors (IGF1R and IGF2R), two ligands (IGF-I and IGF-II), a family of six high-affinity IGF binding proteins (IGFBP 1-6), as well as associated IGFBP degrading enzymes, referred collectively as proteases.

IGF-1 and IGF-II are regulated by a family of proteins known as the IGF-Binding Proteins.

These proteins help to modulate IGF action in complex ways that involve both inhibiting IGF action by preventing binding to the IGF-1 receptor as well as promoting IGF action possibly through aiding in delivery to the receptor and increasing IGF half-life.

Somatostatin

Is a hormone comprising two peptides, one of 14 amino acids, the other of 28 amino acids. Somatostatin is secreted not only by cells of the hypothalamus but also by delta cells of stomach, intestine, and pancreas. It binds to somatostatin receptors. It is classified as an inhibitory hormone whose main action is to inhibit the release of growth hormone.

Insulin-like Growth Factor Binding Proteins (IGFBP)

Group of vertebrate secreted proteins, which bind to IGF-I and IGF-II with high affinity and modulate the biological actions of IGFs.

The IGFBP family has six distinct subgroups, IGFBP-1 to 6, based on conservation of gene (intron-exon) organization, structural similarity, and binding affinity for IGFs.

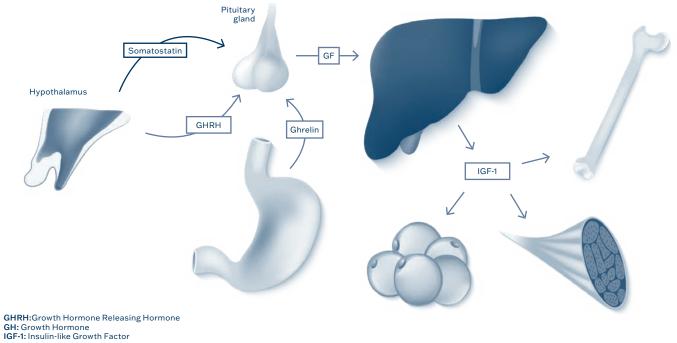
IGFBP-3

Forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. A single IGFBP-3 determination is an excellent screening parameter for GHD. IG-FBP-3 is a good parameter for monitoring the therapeutic efficacy in both GHD an acromegaly.

The IGFBP-2 concentration is age-dependent in blood

Normal values for healthy individuals (1.5 to > 70 years) were evaluated for this assay. Supplementary parameter to IGFBP-3 in the diagnosis of growth disorders (IGFBP-2/IGFBP-3 ratio), IGFBP-2 is an inhibitor of growth hormone action. Progression-dependent tumor marker in leukaemia, astrocystic CNS tumors, prostate, suprarenal cortex-, hepatocellular and other carcinomas. Anti-aging parameter: IGFBP-2 as a marker of physiological functionality.

Growth hormone



Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
			Hum	an Growth H	ormone	(hGH)			
IRMA	KIP1081	96 T	S	50	2	1-120 µIU/mL	0,04 µIU/mL	2	9
IRMA (Urinary)	KIP1131	25 T	U	10 mL	2	1,65-215 ng/L	0,42 ng/L	ON X 2	9
	4300604	Vial sha	aker (IKA Vibrax	300 rpm)					
	4300606	Vial extra	ction insert for	urinary hGH					
Insulin Growth Factor-1 or Somatomedin C (IGF-1 or SM-C)									
IGF-1 RIA CT	KIP1588	96 T	S	50	2	33-1529 ng/mL	3,4 ng/mL	2,5	6
SMC RIA CT	KIP1589	96 T	S - P	100	3	17,5-1750 ng/mL	8,75 ng/mL	ON	6
		Insulin (Growth Fac	tor-2 or Som	atomedi	in A (IGF-2 or S	5M-A)*		
RIA	KIPMR30*	100 T	S - P	10	2	0,4-50 ng/mL	0,1 ng/mL	ON X 2	13
		Ins	ulin Growtl	n Factor Bind	ling Prot	ein-3 (IGFBP-3	3)		
IRMA	KIP1171	96 T	S	10	2	380-13395 ng/mL	27,9 ng/mL	2	12
	Somatostatin*								
RIA	RB306RUO	100 T	Р	1000	2	3,9-125 pmol/L	6 pmol/L	ON X 2	12





Miscellaneous

Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)
				Cyclosp	orine				
RIA	KIPB3679	100 T	EDTA Whole Blood	20	2	36-2235 ng/mL	1,61 ng/mL	1	8
	Ferritin								
IRMA	KIPB3492	100 T	S - P	20	2	4,5-1100 ng/mL	0,39 ng/mL	1	6
	α - Melanocyte Stimulating Hormone*								
RIA	RB303RUO	100 T	EP	100	2	4,7-150 pmol/L	3 pmol/L	48	12



*For Research Use Only S= Serum - P= Plasma

Thyroid Function

Measurement of Serum Thyroid Hormones T4/ FT4 is the most used thyroid test of all.

The T4 reflects the amount of thyroxine in the blood. If the patient does not take any type of thyroid medication, this test is usually a good measure of thyroid function.

Measurement of Serum Thyroid Hormones T3/FT3

Thyroxine (T4) represents 80% of the thyroid hormone produced by the normal gland and generally represents the overall function of the gland. The body normally produces antibodies to foreign substances such as bacteria; however, some people are found to have antibodies against their own thyroid tissue. The other 20% is triiodothyronine measured as T3. Sometimes the diseased thyroid gland will start producing very high levels of T3 but still produce normal levels of T4. Therefore measurement of both hormones provides an even more accurate evaluation of thyroid function.

Thyroid Binding Globulin (TBG)

Most of the thyroid hormones in the blood are attached to a protein called thyroid binding globulin (TBG). If there is an excess or deficiency of this protein, it alters the T4 or T3 measurement but does not affect the action of the hormone. If a patient appears to have normal thyroid function, but an unexplained high or low T4, or T3, it may be due to an increase or decrease of TBG. Direct measurement of TBG can be done and will explain the abnormal value.

Excess TBG or low levels of TBG are found in some families as an hereditary trait. It causes no problem except falsely elevating or lowering the T4 level. These people are frequently misdiagnosed as being hyperthyroid or hypothyroid, but they have no thyroid problem and need no treatment.

Measurement of Pituitary Production of TSH

Normally, low levels (less than 5 units) of TSH are sufficient to keep the normal thyroid gland functioning properly. When the thyroid gland becomes inefficient such as in early hypothyroidism, the TSH becomes elevated even though the T4/FT4 and T3/FT3 may still be within the "normal" range.

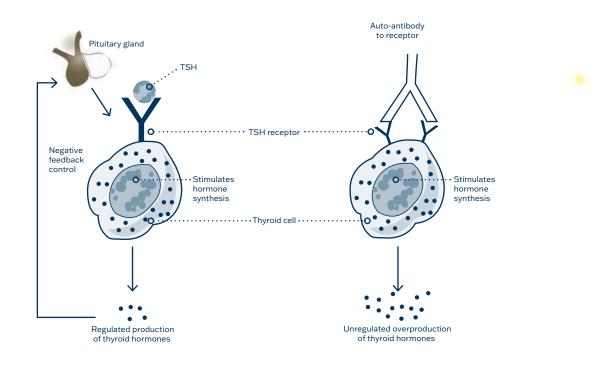
This rise in TSH represents the pituitary gland's response to a drop in circulating thyroid hormone; it is usually the first indication of thyroid gland failure. Since TSH is normally low when the thyroid gland is functioning properly, the failure of TSH to rise when circulating thyroid hormones are low is an indication of impaired pituitary function.

The new "sensitive" TSH test will show very low levels of TSH when the thyroid is overactive (as a normal response of the pituitary to try to decrease thyroid stimulation). Interpretations of the TSH level depends upon the level of thyroid hormone; therefore, the TSH is usually used in combination with other thyroid tests such as the T4/FT4 and T3/FT3.

Thyroid Antibodies

The body normally produces antibodies against foreign substances such as bacteria; however, some people are found to have antibodies against their own thyroid tissue. A condition known as Hashimoto's Thyroiditis is associated with a high level of these thyroid antibodies in the blood. Whether the antibodies cause the disease or whether the disease causes the antibodies is not known; however, the finding of a high level of thyroid antibodies is strong evidence of this disease. Occasionally, low levels of thyroid antibodies are found with other types of thyroid disease. When Hashimoto's thyroiditis presents as a thyroid nodule rather than a diffuse goiter, the thyroid antibodies may not be present.

Stimulating Auto-Antibodies (Graves' disease)



Thyroid Antibody	Acronym	Present in
Thyroid peroxidase antibody	TPOAb	Hashimoto's thyroiditis; Graves' disease
Thyroglobulin antibody	TgAb	Thyroid cancer; Hashimoto's thyroiditis
Thyroid stimulating hormone receptor antibody	TRAb	Graves' disease

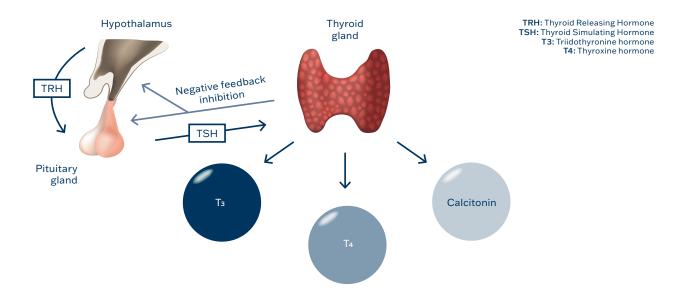








Thyroid hormones



Format	Cat#	Size	Sample type	Sample size (µL)	Control Levels	Range	Sensitivity	Incubation (hours)	Max shelf life (weeks)	
L-Thyroxine (T4)										
RIA CT	KIP1641	96 T	S	20	2	12,8-500 nmol/L	< 5 nmol/L	1	10	
Free L-Thyroxine (FT4)										
RIA CT	KIPB1363	100 T	S-P	25	1	2,6-83 pmol/L	0,4 pmol/L	1	8	
				Triio	do-Thyror	nine (T3)				
RIA CT	KIP1631	96 T	S	50	2	0,35-14 nmol/L	0,15 nmol/L	1	10	
Reverse Triiodo-Thyronine (Reverse T3)										
RIA	R-EW-125	125 T	S-P	100	1	0,02-2,1 ng/mL	0,014 ng/mL	3,5	9	
Free Triiodo-Thyronine (FT3)										
RIA CT	KIPB1579	100 T	S-P	100	1	2,1-44 pmol/L	0,5 pmol/L	2	8	
			Anti-T	hyroglob	ulin Auto	Antibodies (Tg A	b)			
RIA CT	R-CI-100	96 T	S	20	2	20-2000 IU/mL	6 IU/mL	1,5	9	
			Anti-Thy	roperoxi	dase Auto	Antibodies (TPC) Ab)			
RIA CT	R-CO-100	96 T	S	20	2	40-1000 IU/mL	7,4 IU/mL	1,5	9	
Thyroid Stimulating Hormone (TSH)										
IRMA	KIP1891	96 T	S - P	200	2	0,10-90 µIU/mL	0,05 µIU/mL	2	7	
IRMA	KIP1894	384 T	S - P	200	2	0,10-90 µIU/mL	0,05 µIU/mL	2	7	
				TSH F	Rec Ab Hu	ıman (TRAb)				
RIA CT	KIPM2042	100 T	S	100	2	1 - 50 IU/L	0,17 IU/L	2	6,5	
RIACI	KIPM2042	100 F	S	100	2	1 - 50 IU/L	0,17 IU/L	2	6,5	



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Radioactive Decontaminant Solution

The next generation of radioactive decontaminants

Designed to effectively remove radioactive contamination from your skin, safely and gently.

Highly effective on all nuclear medicine isotopes

Bind-lt[™] is highly effective on Tc99m, I131, I125, I123 and most nuclear medicine isotopes.

The top 7 reasons to use bind-it hand soap and spray

- Geiger tube based hand monitors have low sensitivity. Your hands must have a pretty high level of contamination before the monitor picks it up.
- Bind-It[™] Hand Soap removes contamination every time you wash.
- Bind-It[™] Hand Soap will not dry your hands like ordinary lab soap.
- Bind-It[™] Hand Soap has a fresh, clean scent.
- Bind-It[™] Hand Soap is economical and convenient.
 Our touch-free, wall mount dispenser makes it easy.
- Bind-It[™] spray does not damage syringe shield windows, L-blocks or fume hoods as older generation of decontaminants do.
- Bind-lt[™] spray will not corrode metal, plastic or any other surface.

Product Description	Part number for 1 unit	Part number for a box of 12 bottles
Bind-It [™] Radioactive Decontamination Concentrate (473ml)	LTI004EU-01	LTI004EU
Bind-It [™] Spray Cleaner - Designed for Nuclear Medicine (946ml)	LTI030EU-01	LTI030EU
Bind-It [™] Hand Soap - Designed for Nuclear Medicine (237ml)	LTI046EU-01	LTI046EU
Bind-It [™] Wall Mount Touch-less Automatic Hand Soap Dispenser	LTI049	Non applicable
Bind-It [™] Hand Soap - Designed for Nuclear Medicine - Dispenser refills (946ml)	LTI047EU-01	LTI047EU



Instruments

Gamma Counter

CAT#:SHIDG02



CoNEXT¹²⁵ CAT# : AMPCONEXT125R







For more information contact instrumentation@diasource.be.

Custom Diagnostic Laboratory Services & Sales Conditions

ISO 9001 and ISO 13485 approved

The scientists at DiaSource have extensive experience in the development of antibodies and related enzymatic or radioactive assays. They can guide you through each step in the process of purifying, fragmenting, coating and labeling antibodies. High level technicians can be consulted at any time to discuss other services like filling and freeze-drying. We can offer specific and flexible suggestions to enhance the performance of your final product. All services are manufactured under strict ISO-9001 guidelines.

Services Available

Coating services

- Coating of polystyrene tubes individually capped: batch size from 30,000 up to 100,000 tubes with your antibodies according to your coating procedure
- Coating of microtiter plates in sealed aluminum bags with your antibodies according to your coating procedure: batch size from 150 up to 900 microtiter plates
- Primary coated tubes with anti-rabbit, anti-sheep or avidin-streptavidin for RIA-IRMA applications
- Primary microtiter plates with anti-rabbit, anti-sheep, or avidin-streptavidin for ELISA applications

Filling services

- From solution preparation to filling, capping and labeling.

Freeze-drying services

- Freeze-dry from 0.25ml up to 15ml in glass vials: batch size up to 27,000 vials for 5ml vials.

Tailored 125I labeling

- lodination and purification of your antigen (hapten, peptide, protein) either by gel filtration or HPLC.

Mabs fragmentation

 From the antibodies you send us we can produce F(ab')2 fragments on a large scale.

Labeling Services

 Labeling of your antibody or antigen (hapten, peptide) with several markers such as peroxidase, biotin tag or other labels.

Antibody Purification

 Whatever antibody you send us we can purify it by protein-A, protein-G or caprilic acid precipitation and even by affinity chromatography.

General conditions of sales

Article 1 - Application

Unless expressly agreed otherwise in writing, these general terms and conditions shall apply to all offers made by DiaSource and to all contracts concluded on the basis of such an offer or on the basis of an order confirmed by it. The client explicitly waives the application of its own general and special terms and conditions in the context of its relationship with DiaSource. DiaSource shall not be bound by contracts concluded through its staff or agents that do not comply with these terms and conditions. DiaSource reserves the right to amend these Terms and Conditions at any time and without prior notice to the client, provided that such amendments are made available to the client by such means as DiaSource deems appropriate. Such changes shall apply to all subsequent offers and contracts made by DiaSource.

Article 2 - Conclusion of the contract

An offer by DiaSource is only binding if it is accompanied by an option period, provided that this period has not expired. An order by the client shall be deemed to have been accepted by DiaSource as soon as DiaSource has explicitly confirmed the order in writing.

Each order has its own distinct characteristics, and products ordered by one customer cannot be redirected to another customer. It is the customer's responsibility to check the accuracy of the order and to notify DiaSource immediately of any errors. The customer may not cancel an accepted offer in whole or in part. If the client cancels an accepted offer, the client shall in any event pay the full price of the offer.

DiaSource reserves the right to (i) refuse requests for personalised offers, or requests for modifications to accepted offers; and/or (ii) charge the client for such modifications or personalised offers at the actual cost in force at the time, with a minimum of EUR 40 (excluding VAT). Without prejudice to the third paragraph of this Article 2, an administration fee of up to EUR 40 (excl. VAT) shall be charged by DiaSource for any order with a value of less than EUR 500 (excl. VAT). DiaSource also reserves the right to suspend, cancel or refuse the order of a customer, in particular in the case where the data communicated by the customer are obviously erroneous or incomplete or where there is a dispute relating to the payment of a previous order.

Article 3 - Prices and accessories

Unless expressly agreed otherwise in writing, the prices set by DiaSource are valid for packaged products, which are delivered "Ex Works" (within the meaning of Incoterms 2010) to the registered office of DiaSource.

In addition to the agreed price, and unless otherwise expressly agreed in writing, the customer shall bear the following costs: (i) all costs of insurance, protection, loading, transport and unpacking of the goods (ii) All rates and taxes (including VAT and customs duties) relating to the products supplied or the items mentioned under (i), including those rates and taxes which only become applicable or are increased after the conclusion of the contract. (iii) Any additional costs for Dia-Source as a result of an unfavourable increase in exchange rates.

All costs incurred as a result of payments made shall be borne by the client. DiaSource may unilaterally adjust prices. This revision may lead to both an increase in price and a decrease in price. Such a unilateral price adjustment by DiaSource is only valid if DiaSource duly justifies it on the basis of the relevant parameters (increase in the cost of raw materials, etc.). In any case, this revision can only be applied to a maximum of 80% of the price initially fixed

Article 4 - Payment

Unless otherwise agreed, (i) DiaSource shall send a pro forma invoice to the Client, such pro forma invoice shall be paid prior to the date of despatch as confirmed, receipt of payment into the bank account stated on the invoice shall be prior to despatch of the material and (ii) each invoice shall be paid strictly in accordance with the terms of payment set out on the invoice. Any complaint relating to an invoice must be sent by registered mail to the head office of DiaSource, eight calendar days after its receipt. Otherwise, the client will not be able to dispute the invoice.

Any late payment will result in all debts owed by the client to DiaSource becoming immediately due and payable upon notification by DiaSource.

Interest on the balance of all debts owed by the client to DiaSource that are due and payable shall be payable by operation of law and without notice of default, at the rate mentioned in article 5, paragraph 2 of the Law of 2 August 2002 concerning the fight against late payment in commercial transactions, increased by 3.5%. All this is without prejudice to (i) the possibility for DiaSource to prove its actual damage and claim compensation, or (ii) the possibility to suspend the continued performance of all other obligations under this (or any other) contract, or to apply any other sanction under common law.

Article 5 - Retention of title - transfer of risk

Ownership of each product sold shall only be transferred to the customer after full payment of the price and accessories for this product, as well as any default interest or compensation that may be due as a result of late payment of this price. Prior to such full payment, and unless expressly agreed otherwise in writing, the customer is prohibited from disposing of the product, encumbering it with securities, or processing or incorporating it in any way whatsoever. During this period, the customer shall ensure that the product is kept safe, insured and stored individually and that it is marked visibly and legibly as the property of DiaSource. The risk of loss, destruction or damage of the product (also in case of force majeure) shall, however, pass to the client upon delivery of the product.

Article 6 - Delivery time

Each delivery period is only valid as an indication. Exceeding the delivery period shall not give rise to any sanctions, unless the parties have expressly agreed in writing that the delivery period is binding (in this case, exceeding the delivery period shall only result in compensation for actual damage, which has been proven and established by both parties, or in the dissolution of the contract, at the earliest one month after receipt by DiaSource of a formal notice of default from the client demanding delivery).

Article 7 - Unforeseen events

If, beyond the control of DiaSource, circumstances occur in the purchasing, production and distribution process or in any other necessary process which could not have been foreseen at the time of the conclusion of the contract (e.g. strikes, accidents, abnormal weather conditions, material defects, etc.) and which make the (timely) delivery of the product impossible or seriously impede the fulfilment of any other obligation, DiaSource shall be entitled to dissolve the contract or suspend its obligations, depending on the nature of these circumstances. DiaSource will not assume any liability in such a case and declares that it never accepts such a risk.

Article 8 - Force Maieure

DiaSource shall not be held responsible, either contractually or extra-contractually, in the event of temporary or definitive non-performance of its obligations when such non-performance results from a case of force majeure or fortuitous event. The following events shall be considered as force majeure or fortuitous events 1) the total or partial loss or destruction of the Provider's computer system or its database where either of these events cannot reasonably be directly attributed to the Provider and it is not shown that the Provider failed to take reasonable steps to prevent either of these events, 2) earthquakes, 3) fires, 4) floods, 5) epidemics, 6) acts of war or terrorism, 7) strikes, whether declared or not, 8) lockouts 9) blockades, 10) insurrections and riots, 11) a breakdown in the supply of energy (such as electricity), 12) a failure of the Internet or data storage system, 13) a failure of the telecommunications network, 14) a loss of connectivity to the Internet or telecom-munications network on which DiaSource relies, 15) an act or decision of a third party where that decision affects the proper performance of this Agreement or 16) any other cause beyond the reasonable control of DiaSource.

Article 9 - Complaints

9.1 Visible defects

Complaints concerning visible defects are only admissible if the product has not yet been used and if these complaints are sent in writing to customer.service@ diasource.be within 3 working days of receipt of the products and documented by supporting documents (photos, article number, batch number, etc.). After this period, the products will be considered as accepted by the customer, which implies their conformity.

9.2 Transport

The customer must check the products immediately after delivery for conformity, correct guantities and visible defects. Complaints will only be taken into consideration if the customer has mentioned these on the signed delivery note. If these damages are not mentioned and described by the client on the transport documents, at the time of acceptance of the delivery, the goods will be considered as delivered without any damage and no claim will be accepted.

DiaSource will not accept any claims for damage caused by a carrier expressly commissioned by the client. 9.3. Performance Defects

All complaints regarding performance defects must be sent in writing to products.support@diasource.be.

In the event that the products are stored and shipped in a non-conforming condition, used for a purpose or in a process not approved by DiaSource, no claim will be accepted.

9.4. Common provisions

After the discovery of any defect, the customer is obliged to immediately stop using the product in question and to store the products in the correct manner, on pain of inadmissibility of the complaint.

Defective goods may not be returned by the customer without the express prior consent of DiaSource, and must be properly packaged to preserve their quality during return transport.

DiaSource is only obliged to accept returned goods if they have been the subject of a complaint that DiaSource has declared admissible and well-founded. Once the customer has made a complaint to DiaSource, if the complaint is found to be justified, DiaSource will, at its option, provide a reasonable discount, credit note or replacement product at its expense.

Under no circumstances shall a complaint suspend the obligation to pay.

The following shall also be inadmissible: complaints concerning facts which are not within the competence of DiaSource, complaints concerning an error on the part of the customer, complaints concerning a subjective or ill-considered character of the said complaint.

Article 10 - Liability / Security / Disclaimer

DiaSource shall only be liable for hidden defects that fall under its warranty if the client notifies DiaSource of the existence of the defect in writing within 3 working days of the client becoming aware of the defect. In this case, the client may not demand that the sale of the product concerned be rescinded, and DiaSource shall only be liable for (i) the loss in value of the product, as well as, insofar as it is responsible for this, and (ii) the additional damage suffered by the client, if the latter provides proof of this. This compensation (i and ii) may not exceed the price paid by the customer for the product concerned.

The customer undertakes to comply strictly with the Good Distribution Practice (GDP) guidelines applicable to CE marked medical devices. The customer agrees to use the products in a professional manner and in accordance with the instructions provided by DiaSource. The customer agrees to inform DiaSource without delay of any malfunction or change in the characteristics and/or performance of a product purchased from DiaSource. In case of resale of the products by the client to a third party located outside the Belgian territory, the client undertakes to provide this third party with all necessary documents and instructions in the language(s) of the country of export.

Article 11 - Compensation in case of insolvency of the customer

If the client is declared bankrupt, or if any other insolvency proceedings, or proceedings similar to insolvency proceedings, are opened in relation to the client, all sums owed by and between DiaSource and the client shall be set off by operation of law on the date the insolvency proceedings are opened, even if these sums are not due, liquid or fully certain on the date the insolvency proceedings are opened.

Article 12 - Transferability

The client may not assign its rights and obligations towards DiaSource to a third party (by way of sale, capital contribution, gift, or any other transaction, including the assignment or contribution of a branch of activity or a universality, or a merger, demerger or other corporate restructuring) without the prior written consent of DiaSource

Article 13 - Relationship between the parties

As the parties are independent legal entities, the contract only binds them to each other for the purposes mentioned in the contract. Consequently, the provisions of the contract may not be interpreted as creating any association or partnership between the parties or as conferring any mandate on one party to the other. Furthermore, neither party may bind the other in any way or to any person other than in accordance with the provisions of this contract.

Article 14 - Illegality

The possible illegality or invalidity of any article, paragraph or provision (or part of an article, paragraph or provision) shall not affect in any way the legality of the other articles, paragraphs or provisions of these general terms and conditions, nor the remainder of that article, paragraph or provision, unless the contrary intention is evident from the text

Article 15 · Headings

The headings used in these general conditions are for reference and convenience only. They do not affect the meaning or scope of the provisions they refer to.

Article 16 - Non-waiver

No failure, neglect or delay by any party to exercise any right or remedy under these terms and conditions shall be construed as a waiver of such right or remedy.

Article 17 - Applicable law and jurisdiction

These General Terms and Conditions, as well as all contracts to which they relate, are governed by Belgian law, to the exclusion of Belgian private international law and the Vienna Convention on Contracts for the International Sale of Goods of 11 April 1980 (the Convention on the Limitation Period in the International Sale of Goods of 14 June 1974 remains applicable).

The courts of the district of Walloon Brabant shall have exclusive jurisdiction to hear disputes arising from these general terms and conditions or related to contracts concluded by DiaSource (including pre-contractual disputes) to which they

Article 18 - Discrepancies between the different language versions

These general terms and conditions have been drafted in English and French. In case of discrepancies between the different language versions, the French version shall prevail.

Article 19 - GDPR & Privacy Policy

DiaSource is compliant with the General Data Protection Regulation. Our privacy and data protection policy is available on our website www.diasource-diagnostics.com Any questions can be addressed to: GDPR@diasource.be.

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Due to local registration requirement, some products can not be sold in some countries without prior registration. The products with *,**,*** have been respectively registered in *USA - ** Canada - *** Australia. For Japan and Brazil specific registration requirements or for any further information on other products, please contact: regulatory.affairs@diasource.be







Our other available product catalogs







ELISA: Product Catalogue

- Autoimmunity
- Biogenic Amines
- Bone Metabolism
- Cancer Markers
- Cardiovascular & Salt Balance
- Diabetes & Metabolism

- Fertility
- Gastrointestinal Metabolism
- Growth Factors
- Immunology Markers
- Infectious Diseases
- Thyroid Function

Antibodies & Antigens: Product Catalogue

- Bone Metabolism
- Cancer Markers
- Cardiovascular & Salt Balance
- Diabetes & Metabolism
- Fertility

Instruments Catalogue ELISA - RIA - BLOT - CLIA

- Inflammation
- Kidney Function
- Prenatal Screening
- Thyroid Function

Contact us info@diasource.be

or visit our website

www.diasource-diagnostics.com



DiaSource ImmunoAssays® S.A

rue du Bosquet 2 - BE 1348 Louvain-la-Neuve - Belgium +32 (0)10 84 99 11 For more information scan this QR code

