

## DRG<sup>®</sup> Human Soluble Transferrin Receptor ELISA (EIA-4256)



Revised 24 Nov. 2009 (Vers. 3.0)

**RUO** in the USA

*Please use only the valid version of the package insert provided with the kit.*

### INTENDED USE

The Human sTfR ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human soluble transferrin receptor.

### Features

- In the United States, this kit is intended for Research Use Only.
- The total assay time is less than 3 hours.
- The kit measures total soluble transferrin receptor in serum, plasma (EDTA, citrate, heparin) and tissue culture medium.
- Assay format is 96 wells.
- Quality Controls are human serum based. No animal sera are used.
- Standard is natural human blood isolated sTfR based.
- Components of the kit are provided ready to use or concentrated.

### STORAGE, EXPIRATION

Store the complete kit at 2-8°C. Under these conditions, the kit is stable until the expiration date (see label on the box).

For stability of opened reagents see Chapter 9.

### INTRODUCTION

The transferrin receptor (TfR) is the gateway for transferrin-bound-iron entering all body cells. TfR is abundant on the surface of many newly formed cells, but the erythroid marrow cells account for 70 to 80 % of the total body TfR content. The soluble (or serum) transferrin receptor (sTfR) is a circulating truncated form of the membrane receptor protein; it is an 85 kDa glycoprotein forming in serum a 320 kDa complex with diferric transferrin. The serum sTfR concentration reflects the total body mass of cellular transferrin receptor. Anaemias associated with enhanced erythropoiesis and iron deficiency result in an elevation in the sTfR values. The normal sTfR concentrations are about 1.0 – 2.9 µg/ml for adults, when using this assay, the iron deficiency may increase the values up to 20 fold (various normal values have been established by other producers for their assays). Elevation of the soluble transferrin receptor may be also caused by haemolytic anaemia, polycythaemia and thalassemia while aplastic anaemia and chronic renal failure may result in decrease. The most important clinical use of the sTfR determination is in the differential diagnosis between iron deficiency anaemia and the anaemia of chronic disease.

### Areas of investigation:

Iron metabolism

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In the Human sTfR ELISA, Standards, Quality Controls and samples are incubated in microplate wells pre-coated with monoclonal anti-human sTfR antibody. After 60 minutes incubation and washing, monoclonal anti-human sTfR antibody, conjugated with horseradish peroxidase (HRP) is added to the wells and incubated for 60 minutes with captured sTfR. Following another washing step, the remaining HRP conjugate is allowed to react with the substrate solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured spectrophotometrically at 450 nm. The absorbance is proportional to the concentration of sTfR. A standard curve is constructed by plotting absorbance values against concentrations of Standards, and concentrations of unknown samples are determined using this standard curve.

**PRECAUTIONS**

- **For professional use only.**
- Wear gloves and laboratory coats when handling immunodiagnostic materials.
- Do not drink, eat or smoke in the areas where immunodiagnostic materials are being handled.
- This kit contains components of human origin. These materials were found non-reactive for HBsAg, HCV antibody and for HIV 1/2 antigen and antibody. However, these materials should be handled as potentially infectious, as no test can guarantee the complete absence of infectious agents.
- Avoid contact with the acidic Stop Solution and Substrate Solution, which contains hydrogen peroxide and tetramethylbenzidine (TMB). Wear gloves and eye and clothing protection when handling these reagents. Stop and/or Substrate Solutions may cause skin/eyes irritation. In case of contact with the Stop Solution and the Substrate Solution wash skin/eyes thoroughly with water and seek medical attention, when necessary.
- The materials must not be pipetted by mouth.

**TECHNICAL HINTS**

- Reagents with different lot numbers should not be mixed.
- Use thoroughly clean glassware.
- Use deionized (distilled) water, stored in clean containers.
- Avoid any contamination among samples and reagents. For this purpose, disposable tips should be used for each sample and reagent.
- Substrate Solution should remain colourless until added to the plate. Keep Substrate Solution protected from light.
- Stop Solution should remain colourless until added to the plate. The colour developed in the wells will turn from blue to yellow immediately after the addition of the Stop Solution. Wells that are green in colour indicate that the Stop Solution has not mixed thoroughly with the Substrate Solution.
- Dispose of consumable materials and unused contents in accordance with applicable national regulatory requirements.

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**REAGENT SUPPLIED**

<b>Kit Components</b>	<b>State</b>	<b>Quantity</b>
Antibody Coated Microtiter Strips	ready to use	96 wells
Conjugate Solution	ready to use	13 ml
Standard (0.05 – 2 µg/ml)	concentrated	0.1 ml/ vial
Quality Control High	concentrated	0.05 ml/ vial
Quality Control Low	concentrated	0.05 ml/ vial
Dilution Buffer	ready to use	2 x 13 ml
Wash Solution Concentrate (10x)	concentrated	100 ml
Substrate Solution	ready to use	13 ml
Stop Solution	ready to use	13 ml
Product Data Sheet + Certificate of Analysis		1 pc

**MATERIAL REQUIRED BUT NOT SUPPLIED**

- Deionized (distilled) water
- Test tubes for diluting samples
- Glassware (graduated cylinder and bottle) for Wash Solution (Dilution Buffer)
- Precision pipettes to deliver 10-1000 µl with disposable tips
- Multichannel pipette to deliver 100 µl with disposable tips
- Absorbent material (e.g. paper towels) for blotting the microtiter plate after washing
- Vortex mixer
- Orbital microplate shaker capable of approximately 300 rpm
- Microplate washer (optional). [Manual washing is possible but not preferable.]
- Microplate reader with 450 ± 10 nm filter
- Software package facilitating data generation and analysis (optional)

**PREPARATION OF REAGENTS**

- **All reagents need to be brought to room temperature prior to use.**
- **Warm-up the Dilution Buffer to 25-30°C prior to use.**
- **Always prepare only the appropriate quantity of reagents for your test.**
- **Do not use components after the expiration date marked on their label.**

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**A. Assay reagents supplied ready to use**

**Antibody Coated Microtiter Strips**

Stability and storage:

Return the unused strips to the provided aluminium zip-sealed bag with desiccant and seal carefully. Remaining Microtiter Strips are stable 3 months stored at 2-8°C and protected from the moisture.

**Conjugate Solution**

**Dilution Buffer**

**Substrate Solution**

**Stop Solution**

Stability and storage:

Opened reagents are stable 3 months when stored at 2-8°C.

**B. Assay reagents supplied concentrated**

**Human sTfR Standards**

Dilute each concentration of Standard 10x with Dilution Buffer prior to the assay, e.g. 30 µl of Standard + 270 µl of Dilution Buffer for duplicates. Mix well (not foam).

Stability and storage:

Opened Standards are stable 3 months when stored at 2-8°C. Do not store the diluted Standard solutions.

**Quality Controls High, Low**

Dilute Quality Control (QC) 50x with Dilution Buffer prior to the assay, e.g. 5 µl of QC + 245 µl of Dilution Buffer for duplicates. Mix well (not foam).

Stability and storage:

Opened QCs are stable 3 months when stored at 2-8°C. Do not store the diluted QCs.

**Wash Solution Concentrate (10x)**

Dilute Wash Solution Concentrate (10x) ten-fold in distilled water to prepare a 1x working solution. Example: 100 ml of Wash Solution Concentrate (10x) + 900 ml of distilled water for use of all 96-wells.

Stability and storage:

The diluted Wash Solution is stable 1 month when stored at 2-8°C. Opened Wash Solution Concentrate (10x) is stable 3 months when stored at 2-8°C.

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**RUO** in the USA**PREPARATION OF SAMPLES**

The kit measures sTfR in serum or plasma.

Samples should be assayed immediately after collection or should be stored at -20°C. Mix thoroughly thawed samples just prior to the assay and avoid repeated freeze/thaw cycles, which may cause erroneous results. Avoid using hemolyzed or lipemic samples.

Dilute samples just prior to the assay 50x with Dilution Buffer, e.g. 5 µl of sample + 245 µl of Dilution Buffer for duplicates. Mix well (not foam).

Stability and storage:

Samples should be stored at -20°, or preferably at -70°C for long-term storage. Avoid repeated freeze/ thaw cycles.

**Do not store the diluted samples.**

See Chapter 13 for effect of sample matrix (serum/plasma) on the concentration of sTfR.

*Note: It is recommended to use a precision pipette and a careful technique to perform the dilution in order to get precise results.*

**ASSAY PROCEDURE**

1. Pipet **100 µl** of diluted Standards, Quality Controls, Dilution Buffer (=Blank) and samples, preferably in duplicates, into the appropriate wells.
2. Incubate the plate at **30°C (±5°C)** for **1 hour**, shaking at ca. 300 rpm on an orbital microplate shaker. Performing the incubation at the temperature of 25-35°C is crucial in order to obtain valuable results!
3. Wash the wells **3-times** with Wash Solution (0.35 ml per well). After final wash, invert and tap the plate strongly against paper towel.
4. Add **100 µl** of Conjugate Solution into each well.
5. Incubate the plate at **30°C (±5°C)** for **1 hour**, shaking at ca. 300 rpm on an orbital microplate shaker. Performing the incubation at the temperature of 25-35°C is crucial in order to obtain valuable results!
6. Wash the wells **3-times** with Wash Solution (0.35 ml per well). After final wash, invert and tap the plate strongly against paper towel.
7. Add **100 µl** of Substrate Solution into each well. Avoid exposing the microtiter plate to direct sunlight. Covering the plate with e.g. aluminium foil is recommended.
8. Incubate the plate for **10 minutes** at room temperature (20-30°C). The incubation time may be extended [up to 20 minutes] if the reaction temperature is below than 20°C. Do not shake the plate during the incubation.
9. Stop the colour development by adding **100 µl** of Stop Solution.
10. Determine the absorbance by reading the plate at 450 nm. The absorbance should be read within 5 minutes following step 9.

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Note: If the microplate reader is not capable of reading absorbance greater than the absorbance of the highest standard, perform a second reading at 405 nm. A new standard curve, constructed using the values measured at 405 nm, is used to determine sTfR concentration of off-scale samples. The readings at 405 nm should not replace the on-scale readings at 450 nm.

	strip 1+2	strip 3+4	strip 5+6	strip 7+8	strip 9+10	strip 11+12
<b>A</b>	<b>Standard 2</b>	Blank	Sample 8	Sample 16	Sample 24	Sample 32
<b>B</b>	<b>Standard 1</b>	Sample 1	Sample 9	Sample 17	Sample 25	Sample 33
<b>C</b>	<b>Standard 0.5</b>	Sample 2	Sample 10	Sample 18	Sample 26	Sample 34
<b>D</b>	<b>Standard 0.2</b>	Sample 3	Sample 11	Sample 19	Sample 27	Sample 35
<b>E</b>	<b>Standard 0.1</b>	Sample 4	Sample 12	Sample 20	Sample 28	Sample 36
<b>F</b>	<b>Standard 0.05</b>	Sample 5	Sample 13	Sample 21	Sample 29	Sample 37
<b>G</b>	<b>QC High</b>	Sample 6	Sample 14	Sample 22	Sample 30	Sample 38
<b>H</b>	<b>QC Low</b>	Sample 7	Sample 15	Sample 23	Sample 31	Sample 39

Figure 1: Example of a work sheet.

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**CALCULATIONS**

Most microplate readers perform automatic calculations of analyte concentration. The standard curve is constructed by plotting the mean absorbance at 450 nm (Y) of Standards against log of the known concentration (X) of Standards, using the four-parameter algorithm. Results are reported as concentration of sTfR  $\mu\text{g/ml}$  in samples.

Alternatively, the logit log function can be used to linearize the standard curve (i.e. logit of the mean absorbance (Y) is plotted against log of the known concentration (X) of Standards).

**The measured concentrations of samples and/or Quality Controls calculated from the standard curve have to be multiplied by their respective dilution factor. Since samples and/or Quality Controls are diluted 50x while standards are diluted 10x, the ratio 50/10 = 5 have to be used as the dilution factor.**

**Example: 13.5  $\mu\text{g/ml}$  (from standard curve) x 5 (dilution factor) = 67.5  $\mu\text{g/ml}$  (real concentration in sample).**

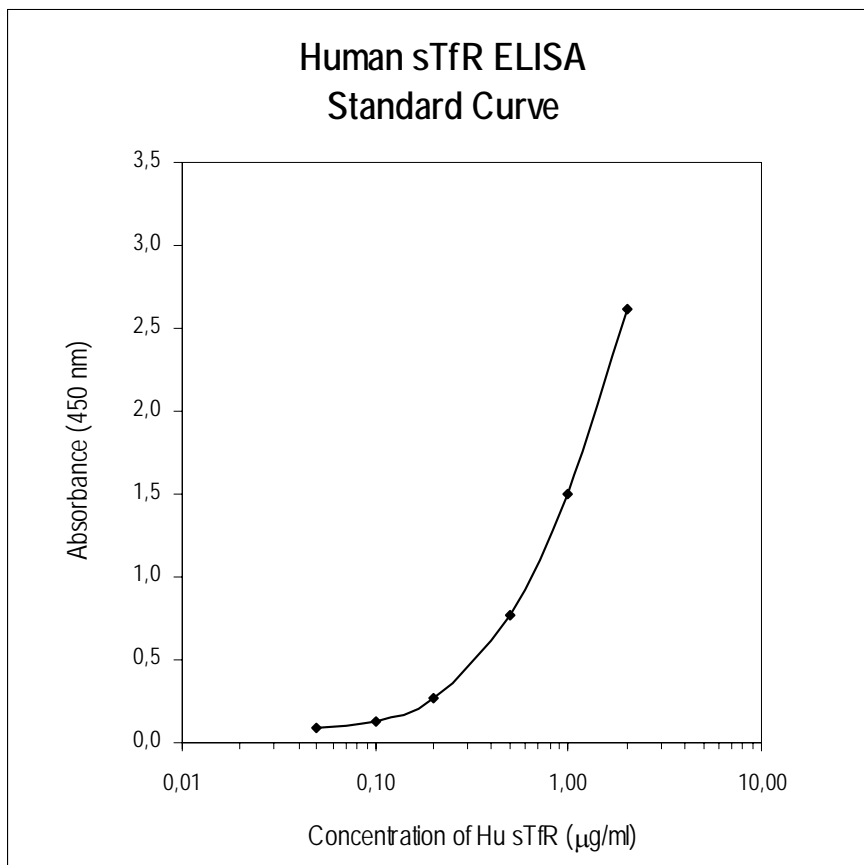


Figure 2: Typical Standard Curve for Human sTfR ELISA.

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**PERFORMANCE CHARACTERISTICS**

Typical analytical data of Human sTfR ELISA are presented in this chapter.

**C. Sensitivity**

Limit of Detection (LOD) (defined as concentration of analyte giving absorbance higher than mean absorbance of blank\* plus three standard deviations of the absorbance of blank:  $A_{\text{blank}} + 3 \times \text{SD}_{\text{blank}}$ ) is calculated from the real sTfR values in wells and is 5 ng/ml.

\*Dilution Buffer is pipetted into blank wells.

**D. Limit of assay**

Results exceeding sTfR level 10  $\mu$ g/ml should be repeated with more diluted samples (e.g. 100x). Dilution factor needs to be taken into consideration in calculating the sTfR concentration.

**E. Specificity**

The antibodies used in this ELISA are specific for human sTfR.

Sera of several mammalian species were measured in the assay. See results below. For details please contact DRG.

<i>Mammalian serum sample</i>	<i>Observed cross reactivity</i>
Bovine	no
Cat	no
Dog	yes
Goat	yes
Hamster	no
Horse	no
Monkey	yes
Mouse	no
Pig	yes
Rabbit	no
Rat	no
Sheep	no

**F. Precision**

Intra-assay (Within-Run) (n=8)

<i>Sample</i>	<i>Mean</i> ( <i>g/ml</i> )	<i>SD</i> ( <i>g/ml</i> )	<i>CV</i> ( <i>%</i> )
1	2.97	0.04	6.0
2	1.85	0.03	7.5



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Inter assay (Run-to-Run) (n=8)

<i>Sample</i>	<i>Mean</i> ( <i>g/ml</i> )	<i>SD</i> ( <i>g/ml</i> )	<i>CV</i> (%)
1	1.51	0.11	7.0
2	6.12	0.33	5.5

**G. Spiking Recovery**

Serum samples were spiked with different amounts of human sTfR and assayed.

<i>Sample</i>	<i>Observed</i> ( <i>µg/ml</i> )	<i>Expected</i> ( <i>µg/ml</i> )	<i>Recovery O/E</i> (%)
1	0.28	-	-
	2.18	2.28	96
	1.39	1.28	109
	0.78	0.78	100
2	0.21	-	-
	2.12	2.21	96
	1.26	1.21	104
	0.68	0.71	96

**H. Linearity**

Serum samples were serially diluted (50x) with Dilution Buffer and assayed.

<i>Sample</i>	<i>Dilution</i>	<i>Observed</i> ( <i>µg/ml</i> )	<i>Expected</i> ( <i>µg/ml</i> )	<i>Recovery O/E</i> (%)
1	-	5.13	-	-
	2x	2.43	2.57	95
	4x	1.25	1.28	98
	8x	0.66	0.64	103
2	-	5.90	-	-
	2x	2.53	2.95	86
	4x	1.39	1.48	94
	8x	0.65	0.74	88

**I. Effect of sample matrix**

EDTA, citrate and heparin plasmas were compared to respective serum samples from the same 10 individuals.

Results are shown below:

Volunteer No.	Serum ( <i>µg/ml</i> )	Plasma ( <i>µg/ml</i> )		
		EDTA	Citrate	Heparin
1	2.0	1.8	1.8	2.3
2	1.7	1.6	1.6	1.6
3	14.0	16.4	13.6	19.0
4	11.7	8.7	9.1	11.6
5	6.0	5.2	4.7	6.0

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6	3.0	3.2	2.8	3.2
7	5.1	4.6	4.1	4.7
8	2.9	2.9	2.2	3.4
9	6.3	5.8	5.5	6.0
10	6.4	6.1	5.6	6.4
<b>Mean (µg/ml)</b>	<b>5.9</b>	<b>5.6</b>	<b>5.1</b>	<b>6.4</b>
<b>Mean Plasma/Serum (%)</b>	-	<b>94.8</b>	<b>86.3</b>	<b>108.6</b>
<b>Correlation coeff. R<sup>2</sup></b>	-	<b>0.96</b>	<b>0.99</b>	<b>0.97</b>

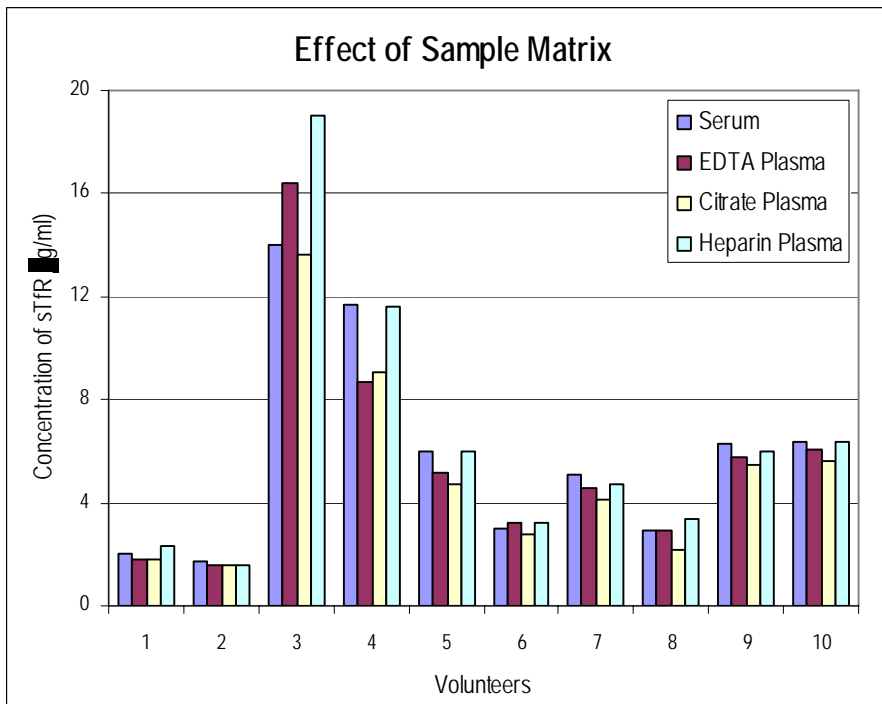


Fig. 3: sTfR levels measured using Human sTfR ELISA from 10 individuals using serum, EDTA, citrate and heparin plasma, respectively.

**DEFINITION OF THE STANDARD**

The Standard used in this kit is a natural sTfR isolated from human blood.

**Concentration Unit Conversions**

(calculated from the sTfR molar mass):

1 nM = 0.075 µg/ml

1 µg/ml = 13.33 nM

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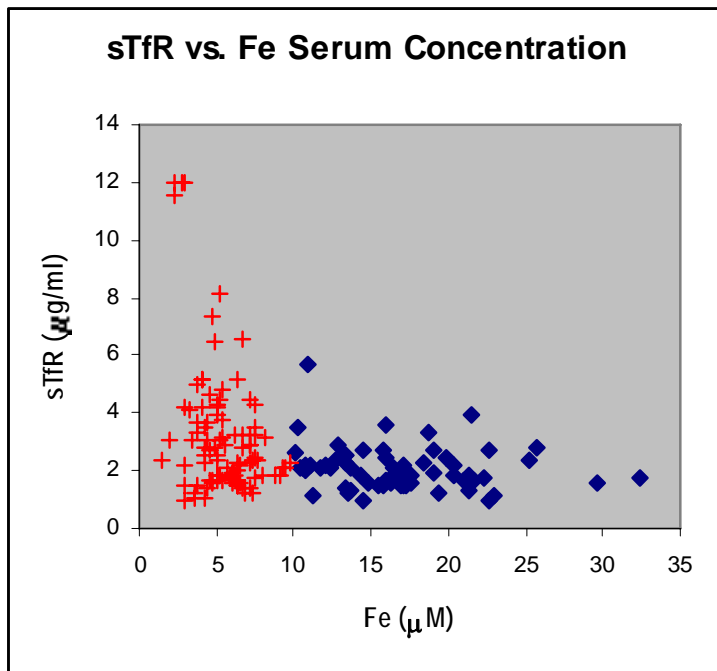


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**PRELIMINARY POPULATION AND CLINICAL DATA**

sTfR concentration in patient sera was plotted versus Fe concentration. Average sTfR concentration of 2.08 µg/ml was found in the group of patients having normal Fe level (>10 µM), Range of the normal sTfR values were calculated as 0.9-3.3 µg/ml. Average sTfR concentration of 3.21 µg/ml was found in the group of patients having low Fe level (<10 µM).



*Fig. 4: sTfR vs. Fe Serum Concentration*

The data quoted in these instructions should be used for guidance only. It is recommended that each laboratory include its own panel of control samples in the assay. Each laboratory should establish its own normal and pathological reference ranges for sTfR levels with the assay.

**METHOD COMPARISON**

The Human sTfR ELISA was compared to a commercial Immunoturbidimetry (IT). The following correlation graph was obtained.

$$y = 0.740x + 0.146$$

$$R^2 = 0.94$$

$$N = 34$$

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**TROUBLESHOOTING AND FAQs**

**Weak signal in all wells**

Possible explanations:

- Omission of a reagent or a step
- Improper preparation or storage of a reagent
- Assay performed before reagents were allowed to come to room temperature
- Improper wavelength when reading absorbance

**High signal and background in all wells**

Possible explanations:

- Improper or inadequate washing
- Overdeveloping; incubation time with Substrate Solution should be decreased before addition of Stop Solution
- Incubation temperature over 30°C

**High coefficient of variation (CV)**

Possible explanation:

- Improper or inadequate washing
- Improper mixing Standards, Quality Controls or samples

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1. Lee E. J. et al. Soluble transferrin receptor (sTfR), ferritin, and sTfR/log ferritin index in anemic patients with nonhematologic malignancy and chronic inflammation. *Clinical Chemistry* 48, 1118-1121 (2002)
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








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








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### Symbols used with DRG Assays

Symbol	English	Deutsch	Français	Español	Italiano
	Consult instructions for use	Gebrauchsanweisung beachten	Consulter les instructions d'utilisation	Consulte las instrucciones de uso	Consultare le istruzioni per l'uso
	European Conformity	CE-Konformitätskennzeichnung	Conformité aux normes européennes	Conformidad europea	Conformità europea
	In vitro diagnostic device	In-vitro-Diagnostikum	Usage Diagnostic in vitro	Para uso Diagnóstico in vitro	Per uso Diagnostica in vitro
	For research use only	Nur für Forschungszwecke	Seulement dans le cadre de recherches	Sólo para uso en investigación	Solo a scopo di ricerca
	Catalogue number	Katalog-Nr.	Numéro de catalogue	Número de catálogo	Numero di Catalogo
	Lot. No. / Batch code	Chargen-Nr.	Numéro de lot	Número de lote	Numero di lotto
	Contains sufficient for <n> tests/	Ausreichend für "n" Ansätze	Contenu suffisant pour "n" tests	Contenido suficiente para <n> ensayos	Contenuto sufficiente per "n" saggi
	Storage Temperature	Lagerungstemperatur	Température de conservation	Temperatura de conservación	Temperatura di conservazione
	Expiration Date	Mindesthaltbarkeits-datum	Date limite d'utilisation	Fecha de caducidad	Data di scadenza
	Legal Manufacturer	Hersteller	Fabricant	Fabricante	Fabbricante
Distributed by	Distributor	Vertreiber	Distributeur	Distribuidor	Distributore
Content	Content	Inhalt	Conditionnement	Contenido	Contenuto
Volume/No.	Volume / No.	Volumen/Anzahl	Volume/Quantité	Volumen/Número	Volume/Quantità

Symbol	Portugues	Dansk	Svenska	Ελληνικά
	Consulte as instruções de utilização	Se brugsanvisning	Se bruksanvisningen	Εγχειρίδιο χρήστη
	Conformidade com as normas europeias	Europaeisk overensstemmelse	Europeisk överensstämmelse	Ευρωπαϊκή Συμμόρφωση
	Diagnóstico in vitro	In vitro diagnostik	Diagnostik in vitro	in vitro διαγνωστικό
				
	Catálogo n.º	Katalognummer	Katalog nummer	Αριθμός καταλόγου
	No do lote	Lot nummer	Batch-nummer	Αριθμός Παρτίδος
		Indeholder tilstrækkeligt til "n" test	Innehåller tillräckligt till "n" tester	Περιεχόμενο επαρκές για «n» εξετάσεις
	Temperatura de conservação	Opbevarings-temperatur	Förvaringstemperatur	Θερμοκρασία αποθήκευσης
	Prazo de validade	Udløbsdato	Bäst före datum	Ημερομηνία λήξης
	Fabricante	Producent	Tillverkare	Κατασκευαστής
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