863 Report of Test Results

Functional Group ID=RT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Report of Test Results Transaction Set (863) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit the results of tests performed to satisfy a specified product or process requirement. This includes, but is not limited to, test data such as inspection data, certification data, and statistical process control measurements.

Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BTR	Beginning Segment for Test Results	M	1		
	050	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			>1	
	080	N1	Name	O	1		

Detail:

Pos. No.	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
		LOOP ID - LIN			>1	
010	LIN	Item Identification	О	1		
030	MEA	Measurements	O	20		
		LOOP ID - CID			>1	
060	CID	Characteristic/Class ID	О	1		
090	PSD	Physical Sample Description	O	>1		
		LOOP ID - TMD			100	
201	TMD	Test Method	О	1		
202	MEA	Measurements	О	>1		

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments
	005	CTT	Transaction Totals	O	1		
M	010	SE	Transaction Set Trailer	M	1		

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose:

To indicate the start of a transaction set and to assign a control number

Syntax Notes:

Semantic Notes: 1 The transaction set

The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

M	Ref. Des. ST01	Data Element 143	Name Transaction	n Set Identifier Code	Attr M	ributes ID 3/3
			Code unique 863	ely identifying a Transaction Set Report of Test Results		
M	ST02	329	Transaction	n Set Control Number	M	AN 4/9
				control number that must be unique within the tra roup assigned by the originator for a transaction s		ion set

Segment: BTR Beginning Segment for Test Results

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a test results transaction set

Syntax Notes:

Semantic Notes: 1 If BTR01 equals "01", "02", "03", "04", "05", "18" or "19", then BTR06 is required to identify the original test report reference number transmitted.

- 2 BTR02 is the date that this transaction set was created by the sending party.
- 3 BTR03 is the time that this transaction set was created by the sending party.
- 4 BTR05 specifies test results report reference number created by the sending party.

Comments:

M	Ref. <u>Des.</u> BTR01	Data Element 353	Name Transaction Set Purpose Code		ributes ID 2/2
			Code identifying purpose of transaction set		
			00 Original		
M	BTR02	373	Date	\mathbf{M}	DT 8/8
			Date expressed as CCYYMMDD		
	BTR03	337	Time	O	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, of HHMMSSD, or HHMMSSDD, where $H = hours$ (00-23), M (00-59), $S = integer$ seconds (00-59) and $DD = decimal$ seconds are expressed as follows: $D = tenths$ (0-9) and $DD = (00-99)$	= mii nds; d	nutes lecimal
	BTR04	755	Report Type Code	O	ID 2/2
			Code indicating the title or contents of a document, report or 12 Mechanical Properties	suppo	orting item
	BTR05	127	Reference Identification	O	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set o	or as

Segment: DTM Date/Time Reference

Position: 050

Loop:

Level: Heading Usage: Optional Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes: Comments:

M	Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Qualifier	Attr M	ributes ID 3/3
112		<i>c,</i> .	Code specifying type of date or time, or both date and time	1,1	12 0,0
			O11 Shipped		
	DTM02	373	Date	\mathbf{X}	DT 8/8
			Date expressed as CCYYMMDD		
	DTM03	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, of HHMMSSD, or HHMMSSDD, where $H = hours$ (00-23), M (00-59), $S = integer$ seconds (00-59) and $DD = decimal$ seconds are expressed as follows: $D = tenths$ (0-9) and $DD = (00-99)$	= mii nds; d	nutes ecimal

Segment: N1 Name

Position: 080

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 1

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: 1 At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

Semantic Notes: Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

			Data Eleme	nt Summar y		
M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier Co	ode	Attı M	ributes ID 2/3
			Code identifying an individual	organizational entity, a physical location	, prop	perty or an
			BY	Buying Party (Purchaser)		
			MF	Manufacturer of Goods		
			OU	Outside Processor		
				A resource extraneous to primary material performs additional material processing of the material to the primary provider's	prior	to delivery
			SF	Ship From		
			ST	Ship To		
			SU	Supplier/Manufacturer		
	N103	66	Identification Code	Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			92	Assigned by Buyer or Buyer's Agent		
	N104	67	Identification Code		\mathbf{X}	AN 2/80
			Code identifying a p	arty or other code		

LIN Item Identification **Segment:**

Position: 010

> Loop: LIN Optional

Level: Detail Usage: Optional Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- If either LIN04 or LIN05 is present, then the other is required.
- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required. 4
- If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- If either LIN14 or LIN15 is present, then the other is required.
- If either LIN16 or LIN17 is present, then the other is required.
- If either LIN18 or LIN19 is present, then the other is required.
- If either LIN20 or LIN21 is present, then the other is required.
- If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: Comments: LIN01 is the line item identification

See the Data Dictionary for a complete list of IDs.

LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

	Ref. Des.	Data <u>Element</u>	Name	Attı	<u>ributes</u>
M	LIN02	235	Product/Service ID Qualifier	M	ID 2/2
			Code identifying the type/source of the descriptive number u Product/Service ID (234) VO Vendor's Order Number	sed in	ı
M	LIN03	234	Product/Service ID	M	AN 1/48
			Identifying number for a product or service		
	LIN04	235	Product/Service ID Qualifier	\mathbf{X}	ID 2/2
			Code identifying the type/source of the descriptive number u Product/Service ID (234) VN Vendor's (Seller's) Item Number	sed in	ı
	LIN05	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	LIN06	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number u Product/Service ID (234) HN Heat Number	sed in	1
	LIN07	234	Product/Service ID	\mathbf{X}	AN 1/48
			Identifying number for a product or service		
	LIN08	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number u Product/Service ID (234) SN Serial Number	sed in	l
	LIN09	234	Product/Service ID	\mathbf{X}	AN 1/48
			Identifying number for a product or service		

Segment: MEA Measurements

Position: 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: 20

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

Syntax Notes: 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	Element	<u>Name</u>			tributes
	MEA01	737	Measureme	ent Reference ID Code	0	ID 2/2
			Code identif	fying the broad category to wl	hich a measurement app	lies
			PD	Physical Dimension	S	
	MEA02	738	Measureme	ent Qualifier	0	ID 1/3
			Code identifi measuremen	fying a specific product or pro nt applies	ocess characteristic to wi	hich a
			NU	Number per Unit		
			TH	Thickness		
			WD	Width		
			WT	Weight		
	MEA03	739	Measureme	ent Value	X	R 1/20
			The value of	f the measurement		
	MEA04	C001	Composite	Unit of Measure	X	
			To identify a of use)	a composite unit of measure	(See Figures Appendix	for examples
M	C00101	355	Unit or Bas	is for Measurement Code	M	ID 2/2
				ying the units in which a valu asurement has been taken	e is being expressed, or	manner in
			CX	Coil		
			KG	Kilogram		
			MM	Millimeter		

Segment: CID Characteristic/Class ID

Position: 060

Loop: CID Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the general class or specific characteristic upon which test results are being

reported or are to be taken

Syntax Notes: 1 At least one of CID01 CID02 CID04 or CID05 is required.

If either CID03 or CID04 is present, then the other is required.
If CID06 is present, then both CID03 and CID04 are required.

4 If CID07 is present, then at least one of CID04 or CID05 is required.

Semantic Notes: Comments:

1 CID06 specifies the individual code list of the agency specified in CID03.

2 CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it is indeterminate.

Data Element Summary

Ref.	Data			
Des.	Element	<u>Name</u>	Att	<u>ributes</u>
CID02	750	Product/Process Characteristic Code	X	ID 2/3
		Code identifying the general class of a product or process ch	aracte	eristic

71 Mechanical

 ${f PSD}$ Physical Sample Description **Segment:**

Position: 090

CID Loop: Optional

Level: Detail Usage: Optional Max Use: >1

Purpose: To define the physical sample parameters associated with a test resulting in discrete

measurements

Syntax Notes: If either PSD03 or PSD04 is present, then the other is required.

Only one of PSD03 or PSD09 may be present. 2

Semantic Notes:

Comments: 1 PSD08 can provide a more complete description of the physical sampling location.

Data Element Summary

Ref.	Data				
Des.	Element	<u>Name</u>		Att	<u>ributes</u>
PSD01	939	Sample Process S	Status Code	O	ID 2/2
		Code specifying t specimen was sele	he stage in the product development cycle a ected for testing	it whi	ich the
		02	Finished product specimen		
PSD06	944	Sample Direction	n Code	O	ID 2/2
		Code specifying t	he direction in which the sample was collect	ted o	r tested
		01	Longitudinal		
		02	Transverse		
PSD07	945	Position Code		O	ID 2/2
			he position of an item such as the location, ample was taken; the position of a coupon w		-

advertisement; etc

11 Front Segment: TMD Test Method

Position: 201

Loop: TMD Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To describe the nature of the test performed

Syntax Notes: 1 If either TMD02 or TMD03 is present, then the other is required.

2 If TMD09 is present, then TMD02 is required.

Semantic Notes: 1 TMD07 is the date of the test method as assigned by the issuing organization.

2 TMD08 is the document revision number.

Comments: 1 TMD09 specifies the individual code list of the agency specified in TMD02.

Ref.	Data			
Des.	Element	<u>Name</u>	Att	<u>ributes</u>
TMD02	559	Agency Qualifier Code	X	ID 2/2
		Code identifying the agency assigning the code values		
		ST American Iron & Steel Institute		
TMD03	751	Product Description Code	\mathbf{X}	AN 1/12
		A code from an industry code list which provides specific data characteristic	ta abo	out a product
TMD09	822	Source Subqualifier	O	AN 1/15
		A reference that indicates the table or text maintained by the	Sour	ce Qualifier

Segment: MEA Measurements

Position: 202

Comments:

M

Loop: TMD Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

Syntax Notes: 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

Dof	Doto	Data Elen	nent Summary					
Ref. Des.	Data Element	Name		Attı	ributes			
<u>Des.</u> MEA01	737	Measurement Reference ID Code		0	ID 2/2			
		Code identifying the broad category to which a measurement applies						
		TR	Test Results	upp.				
			Indicates that the data to follow are the	result	s test			
			measurements					
MEA02	738	Measurement Qualifier		O	ID 1/3			
		Code identifying a measurement appli	e identifying a specific product or process characteristic					
		CTG	Coating					
			Product applied to the top of a substrate or base					
		EA	Elongation					
		NV	N Value					
		TF	The work hardening rate capability of m predicts the ability to deform in stretch, bending Tensile					
		YB	Yield					
		ZFE	Iron					
MEA03	739	Measurement Val	lue	X	R 1/20			
		The value of the measurement						
MEA04	C001	Composite Unit o	f Measure	X				
	To identify a composite unit of measure (See Figures Apof use)							
C00101	355	Unit or Basis for Measurement Code		M	ID 2/2			
		Code specifying th which a measurem 69 GM M8 P1	e units in which a value is being expressed ent has been taken Test Specific Scale Grams per Sq. Meter Mega Pascals Percent	l, or n	manner in			
MEA09	752	Surface/Layer/Po	sition Code	O	ID 2/2			
		Code indicating the product surface, layer or position that is being described						
		BT	Bottom					
		TEN D						

Top

TP

Segment: CTT Transaction Totals

Position: 005

Loop:

Level: Summary Usage: Optional

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set
 Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments:

1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

Total number of line items in the transaction set

 ${\bf SE}$ Transaction Set Trailer **Segment:**

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

M	Ref. Des. SE01	Data Element 96	Name Number of Included Segments	 ributes N0 1/10
3.6	GE02	220	Total number of segments included in a transaction set include segments	
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction s	AN 4/9 ion set