

**Specimen ID:** 039-127-9601-0  
**Control ID:**
**Acct #:** 90000999      **Phone:** (336) 436-8645      **Rte:** 00  
 LabCorp Test Master  
 Test Account  
 5450 Millstream Road  
 MCLEANSVILLE NC 27301

**SAMPLE, 504550**

Patient Details	Specimen Details	Physician Details
<b>DOB:</b> 01/11/1990 <b>Age(y/m/d):</b> 028/00/28 <b>Gender:</b> F <b>SSN:</b> <b>Patient ID:</b>	<b>Date collected:</b> 02/08/2018 0000 Local <b>Date received:</b> 02/08/2018 <b>Date entered:</b> 02/08/2018 <b>Date reported:</b> 02/13/2018 0000 ET	<b>Ordering:</b> <b>Referring:</b> <b>ID:</b> <b>NPI:</b>

**General Comments & Additional Information**  
**Clinical Info:** NORMAL REPORT

**Ordered Items**

14.3.3 ETA, Rheum. Arthritis

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
14.3.3 ETA, Rheum. Arthritis	<0.20		ng/mL		01

Reference Range: &lt; 0.20

**Comments:**

14-3-3 eta protein is a joint-derived, proinflammatory mediator that is implicated in the joint erosion process and pathogenesis of RA. Serum 14-3-3 eta is elevated in both early and established RA.

- Diagnostic value:  
 14-3-3 eta is highly specific for RA. Serum 14-3-3 eta may be especially helpful in identifying patients with early RA where it provides a 15% incremental benefit to the diagnostic sensitivity of markers, Rheumatoid Arthritis (RA) Factor and Cyclic Citrullinated Peptide (CCP) Antibodies, i.e. An additional 15% of early RA patients may be detected by 14-3-3 eta (1).
- Correlation with radiographic evidence of joint damage.  
 Positive serum 14-3-3 eta levels are associated with higher rates of joint damage as measured by radiographic assessments (Sharp/van der Heijde Score) (2).
- Serum 14-3-3 eta levels above a threshold of 0.50 ng/ml identify RA patients who will have more rapid radiographic progression, even those who may be in SDAI remission (1).

**References:**

1. Carrier N, et al. Serum levels of 14-3-3 eta protein supplement C-reactive protein and rheumatoid arthritis-associated antibodies to predict clinical and radiographic outcomes in a prospective cohort of patients with recent-onset inflammatory polyarthritis. *Arthritis Res Ther* 2016;18:37
2. Maksymowych WP, et al. 14-3-3 eta is a novel mediator associated with the pathogenesis of rheumatoid arthritis

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TESTS	RESULT	FLAG	UNITS	REFERENCE	INTERVAL	LAB
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and joint damage. Arthritis Res Ther 2014;16:R99.

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

01	ES	Esoterix Endocrinology 4301 Lost Hills Road, Calabasas Hills, CA 91301-5358	Dir: Samuel Pepkowitz, MD
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For inquiries, the physician may contact **Branch: 800-222-7566 Lab: 800-282-7300**

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**General Comments & Additional Information**  
**Clinical Info:** ABNORMAL REPORT

**Ordered Items**  
 14.3.3 ETA, Rheum. Arthritis

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
14.3.3 ETA, Rheum. Arthritis	5.21	High	ng/mL		01

**Reference Range:** < 0.20

**Comments:**

14-3-3 eta protein is a joint-derived, proinflammatory mediator that is implicated in the joint erosion process and pathogenesis of RA. Serum 14-3-3 eta is elevated in both early and established RA.

- **Diagnostic value:**  
 14-3-3 eta is highly specific for RA. Serum 14-3-3 eta may be especially helpful in identifying patients with early RA where it provides a 15% incremental benefit to the diagnostic sensitivity of markers, Rheumatoid Arthritis (RA) Factor and Cyclic Citrullinated Peptide (CCP) Antibodies, i.e. An additional 15% of early RA patients may be detected by 14-3-3 eta (1).
- **Correlation with radiographic evidence of joint damage.**  
 Positive serum 14-3-3 eta levels are associated with higher rates of joint damage as measured by radiographic assessments (Sharp/van der Heijde Score) (2).
- **Serum 14-3-3 eta levels above a threshold of 0.50 ng/ml identify RA patients who will have more rapid radiographic progression, even those who may be in SDAI remission (1).**

**References:**

1. Carrier N, et al. Serum levels of 14-3-3 eta protein supplement C-reactive protein and rheumatoid arthritis-associated antibodies to predict clinical and radiographic outcomes in a prospective cohort of patients with recent-onset inflammatory polyarthritis. *Arthritis Res Ther* 2016;18:37
2. Maksymowych WP, et al. 14-3-3 eta is a novel mediator associated with the pathogenesis of rheumatoid arthritis and joint damage. *Arthritis Res Ther* 2014;16:R99.

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TESTS	RESULT	FLAG	UNITS	REFERENCE	INTERVAL	LAB
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