

Brigham Research Assay Core (BRAC)
221 Longwood Avenue
Boston, MA 02115
Director: Gordon Williams, MD

Dehydroepiandrosterone sulfate (DHEA-S)

Method:	Access Chemiluminescent Immunoassay
Kit Manufacturer:	Beckman Coulter, Fullerton, CA
Description:	The Access DHEA-S assay is a paramagnetic particle, chemiluminescent immunoassay for the quantitative determination of Dehydroepiandrosterone sulfate levels in human serum and plasma using the Access Immunoassay Systems.

Collection and Performance Characteristics

Tube type:	Preferred: SST Alternate: EDTA or Heparin																																																																				
Minimum Volume:	0.5 mL																																																																				
Lowest Reportable Value:	2 ug/dL																																																																				
Dynamic range:	2-1000 ug/dL																																																																				
Precision:	Intra-assay variation is 1.6-8.3% Inter-assay variation is 3.7-11.3%																																																																				
Reference Range:	<table><tr><th>Age (years)</th><th>n</th><th>Median* (µg/dL)</th><th>95% Reference Interval** (µg/dL)</th></tr><tr><td colspan="4">Females</td></tr><tr><td>18-21</td><td>10</td><td>177</td><td>51-321</td></tr><tr><td>21-30</td><td>39</td><td>170</td><td>18-391</td></tr><tr><td>31-40</td><td>40</td><td>141</td><td>23-266</td></tr><tr><td>41-50</td><td>42</td><td>121</td><td>19-231</td></tr><tr><td>51-60</td><td>39</td><td>58</td><td>8-188</td></tr><tr><td>61-70</td><td>30</td><td>61</td><td>12-133</td></tr><tr><td>> 71</td><td>33</td><td>35</td><td>7-177</td></tr><tr><td colspan="4">Males</td></tr><tr><td>18-21</td><td>10</td><td>302</td><td>24-537</td></tr><tr><td>21-30</td><td>44</td><td>238</td><td>85-690</td></tr><tr><td>31-40</td><td>45</td><td>217</td><td>106-464</td></tr><tr><td>41-50</td><td>43</td><td>193</td><td>70-495</td></tr><tr><td>51-60</td><td>36</td><td>119</td><td>38-313</td></tr><tr><td>61-70</td><td>29</td><td>78</td><td>24-244</td></tr><tr><td>> 71</td><td>34</td><td>45</td><td>5-253</td></tr></table> *Actual median of samples **Based on parametric model for 2.5% to 97.5% reference interval	Age (years)	n	Median* (µg/dL)	95% Reference Interval** (µg/dL)	Females				18-21	10	177	51-321	21-30	39	170	18-391	31-40	40	141	23-266	41-50	42	121	19-231	51-60	39	58	8-188	61-70	30	61	12-133	> 71	33	35	7-177	Males				18-21	10	302	24-537	21-30	44	238	85-690	31-40	45	217	106-464	41-50	43	193	70-495	51-60	36	119	38-313	61-70	29	78	24-244	> 71	34	45	5-253
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