

Analytical Parameters (Serum) window

生化检验中有些用户会需要开启仪器的血清学检测功能，及溶血、黄疸、脂浊指数，ADVIA 系列生化仪可以提供定性到定量的血清学指数，定量需要购买相应的定标品，但定性的报告可以由仪器对血清基质的读数直接给出。一下部分内容，我将详细介绍如何设置血清学指数：

Use the **Analytical Parameters (Serum)** window to set the parameters for evaluating the serum indices (lipemia, hemolysis, and icterus).

You can:

- Define up to five different flagging levels of concern for each serum indice.
- Select a test item to perform the serum indices analyses, and enter the factor values required to calculate the serum indices result values.

Operation of the serum indices feature is controlled in the **Serum indices** area of the [System Specifications Set](#) window.

Use the following procedure to obtain the same flagging levels used by Bayer when evaluating [method serum interferences](#).

- 1 You must [Log on](#) as a manager.
- 2 From the **ADVIA 1650 Menu** window, click **Set up** then click **Analytical Parameters (Serum)**.
- 3 In the **Analysis condition** area for **Lipe**:
 - a In the digits box enter 1.
 - b In the **Quali.judg. list**, click **Do**.
 - c Click **Qualit.set**.
 - d In the **Qualitative Judgement Set** dialog box, enter the following values in the **Characters** and **Border values** boxes.

1	2	3	4	5
-	+	++	+++	++++
- 25.00	- 43.000	- 208.00	- 343.00	-
1	2	3	4	

- e Click **OK**.
- 4 In the Analysis condition area for **Hemo**:

- a In the digits box enter 1.
- b In the **Quali.judg. list**, click **Do**.
- c Click **Qualit.set**.
- d In the **Qualitative Judgement Set** dialog box, enter the following values in the **Characters** and **Border values** boxes.

1	2	3	4	5
-	+	++	+++	++++
-	23.00	-	110.00	-
	1		2	
			234.00	-
			3	
			379.00	-
			4	

- e Click **OK**.
- 5 In the Analysis condition area for **Icte**:
- a In the digits box enter 1.
 - b In the **Quali.judg. list**, click **Do**.
 - c Click **Qualit.set**.
 - d In the **Qualitative Judgement Set** dialog box, enter the following values in the **Characters** and **Border values** boxes.

1	2	3	4	5
-	+	++	+++	++++
-	1.2	-	6.0	-
	1		2	
			14.7	-
			3	
			17.7	-
			4	

- e Click **OK**.
- 6 Assign test items to run serum indices by entering the following values in the **Item** and **Factor a** through **Factor f** boxes.

	Item	Item	Factor a	Factor b	Factor c	Factor d	Factor e	Factor f
1	1	ALT	9701	4685	66.2	1.131	0.646	2.920
2	2	AST	9533	5924	54.6	1.164	0.452	2.447

3	9	URE	2181	1148	157.6	1.132	0.356	2.31
		A	8	1				9
4	32	LD-L	1230	8357	74.8	1.167	0.299	2.05
		-P	2					6

7 Click **OK**.

calculating the serum indices

The serum indices are calculated as follows:

$$\text{Lipema} = a \times \text{ABS_L}$$

$$\text{Hemolysis} = b \times (\text{ABS_H} - d \times \text{ABS_L})$$

$$\text{Icterus} = c \times [\text{ABS_I} - e \times (\text{ABS_H} - d \times \text{ABS_L}) - f \times \text{ABS_L}]$$

ABS_L, ABS_H, and ABS_I are the sample absorbance values for lipemia, hemolysis, and icterus respectively.

The factor values a through f are determined experimentally.