BAC TRACKER International, Inc.

Full User Manual

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Contents

1 Contents

2 Change Report Preferences

3 Create and Manage Case Files

4 Generate Anterograde Alcohol Extrapolation Report

5. Generate Retrograde Alcohol Extrapolation Report (Type I)

6. Generate Retrograde Alcohol Extrapolation Report (Type II)

7. Generate Alcohol Quantification Report

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How to . . .

Change Report Preferences

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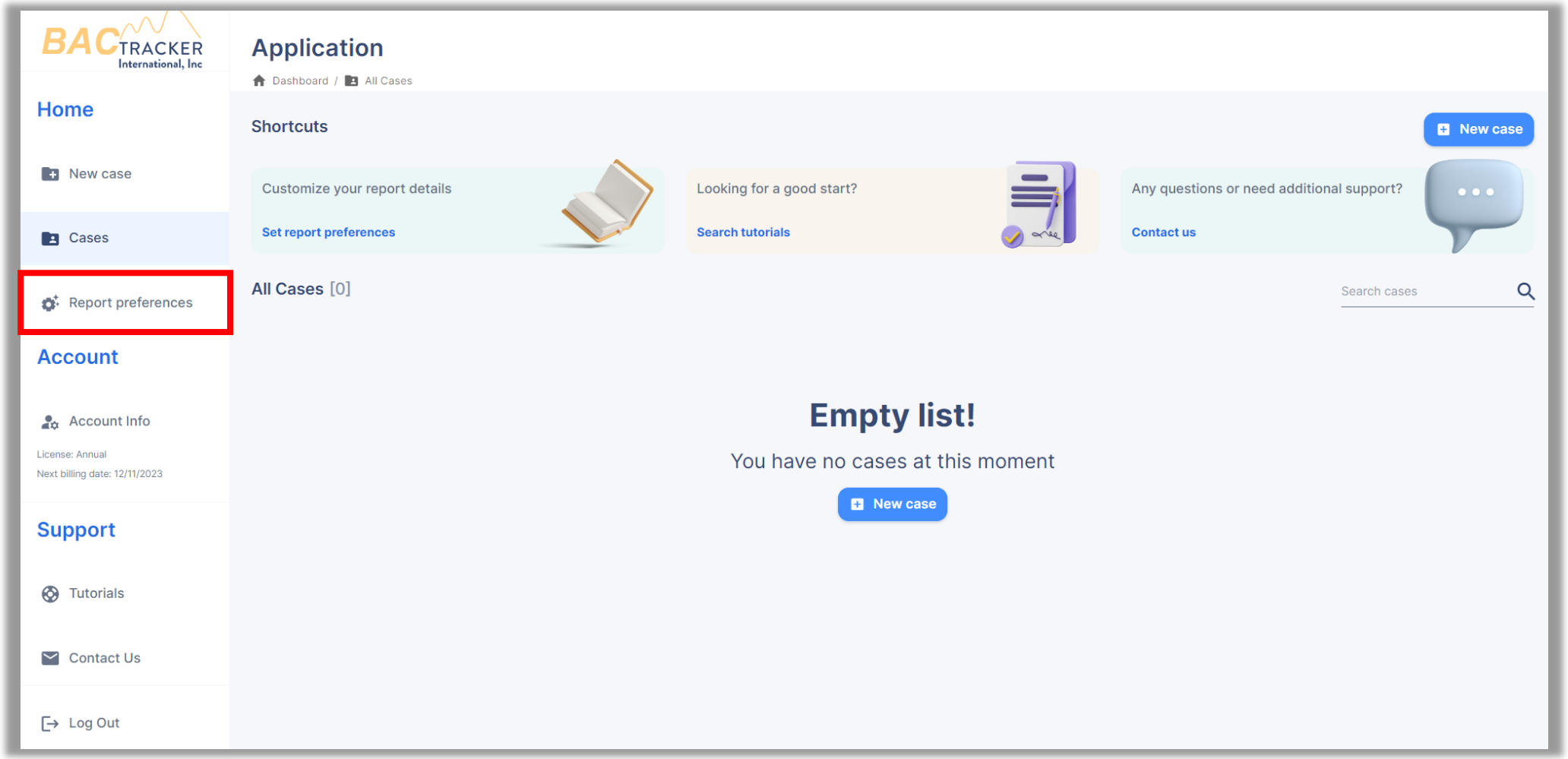
From the Dashboard, select “Report Preferences” to enter default report values.



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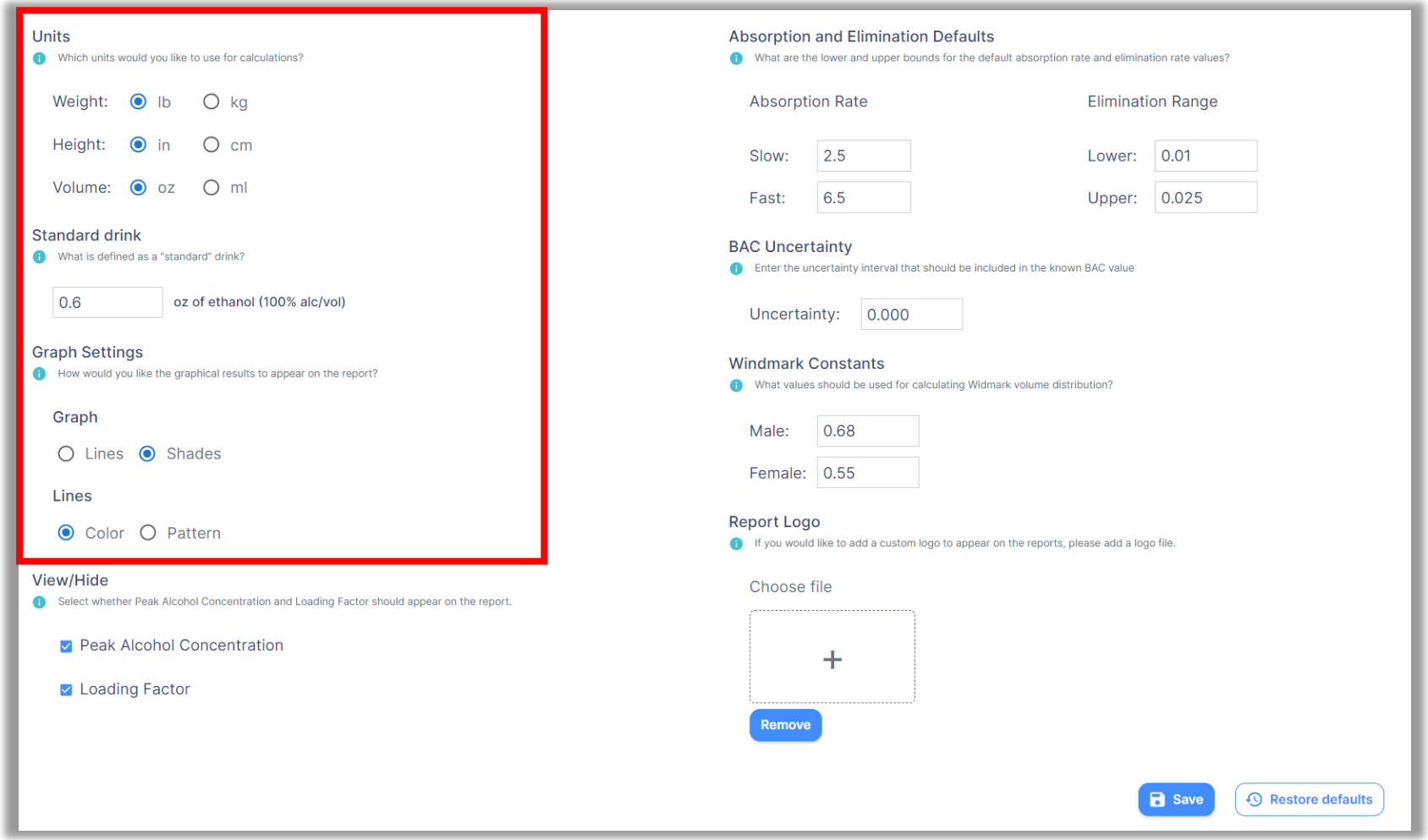
Enter the defaults for Units, Standard Drink definition, and Graph Settings preferred when generating new cases and reports. Define "Standard Drink" in terms of 100% alcohol by volume (alc/vol). For example, 0.6oz of 100% alc/vol = 12oz of 5% alc/vol or 1.5oz 40% alc/vol



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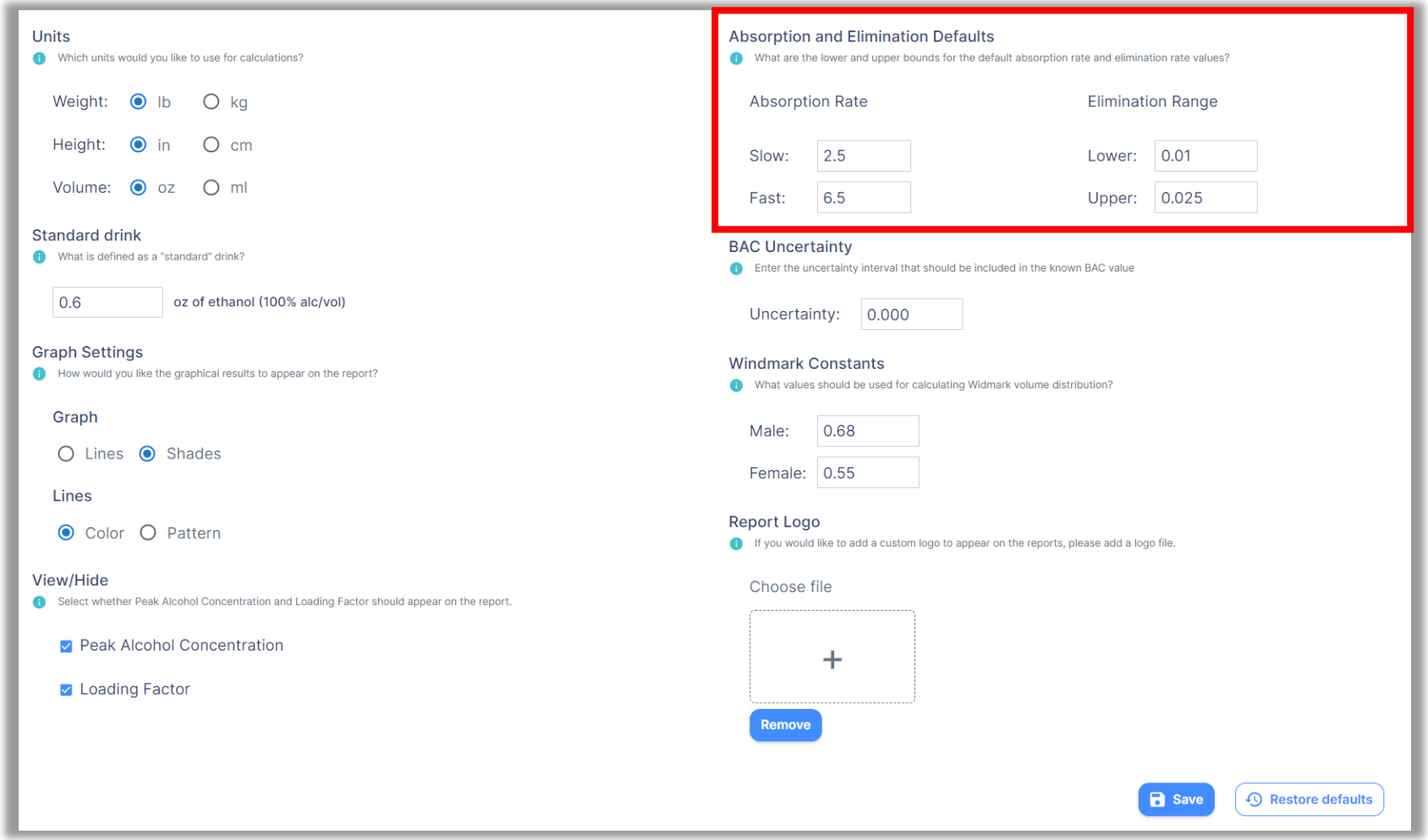
Absorption rate values can range between 1.0 (very slow absorption) and 8.0 (very fast absorption). Recommended default values are 2.5 and 6.5. Elimination rate values can range between 0.005 g/dl/hr^{-1} (very slow elimination) and 0.035 g/dl/hr^{-1} (very fast elimination). Recommended default values are 0.010 g/dl/hr^{-1} and 0.025 g/dl/hr^{-1} .



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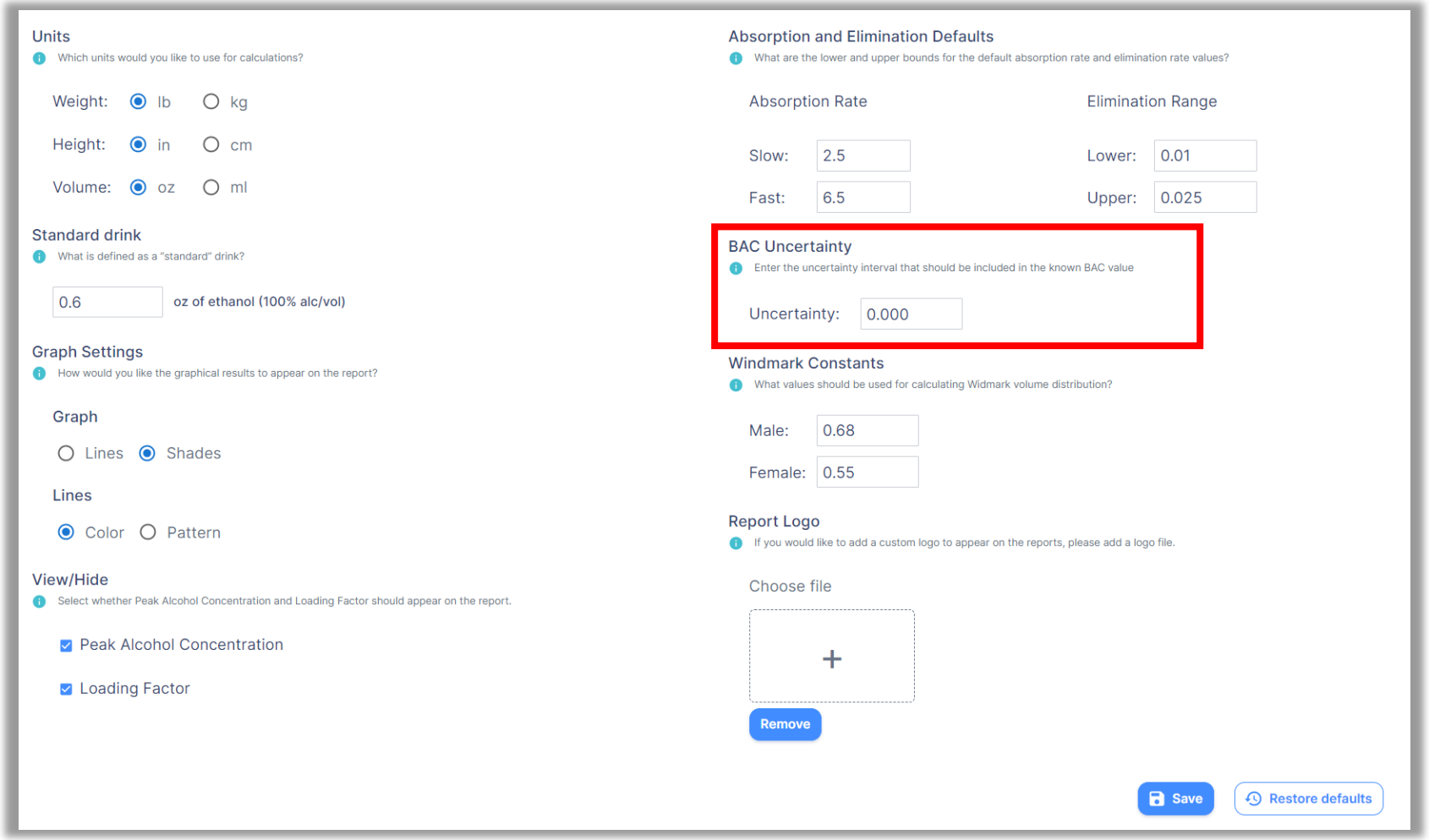
Enter a known Quality Assurance/Quality Control (QA/QC) uncertainty associated with the analytical method of obtaining a known BAC value, e.g., +/- 0.005g/dl. If no uncertainty is desired, enter 0.000.



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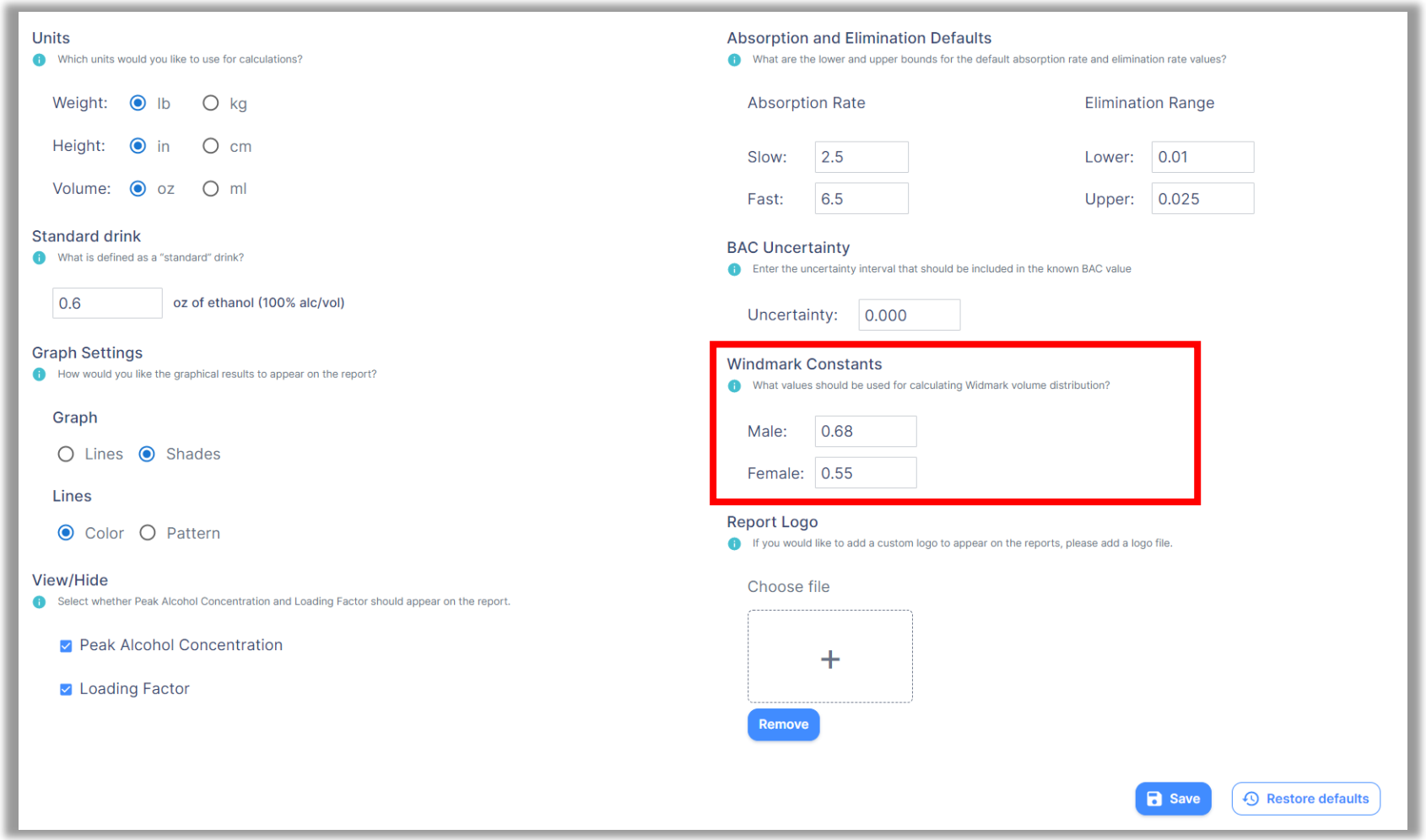
Widmark constant values typically range between 0.68 +/- 0.17 for males and 0.55 +/- 0.11 for females. Recommended default values are 0.68 for males and 0.55 for females.



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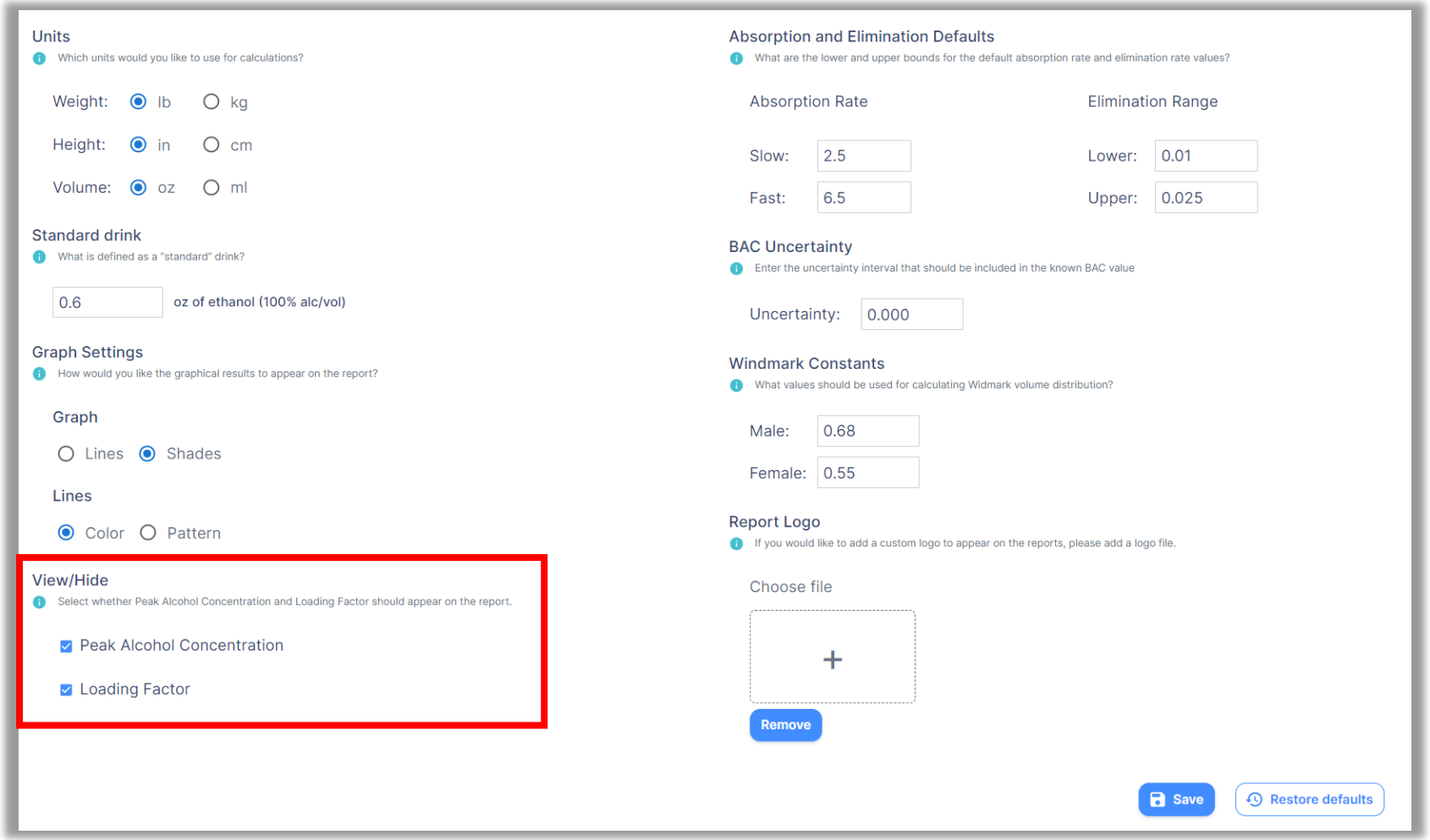
Check the box to display the peak alcohol concentration and time of peak alcohol concentration on the Alcohol Extrapolation Report. Check the box to display the "Loading Factor" on the report. The "Loading Factor" is the theoretical maximum alcohol concentration that could be achieved in an estimation assuming the alcohol was administered instantaneously.



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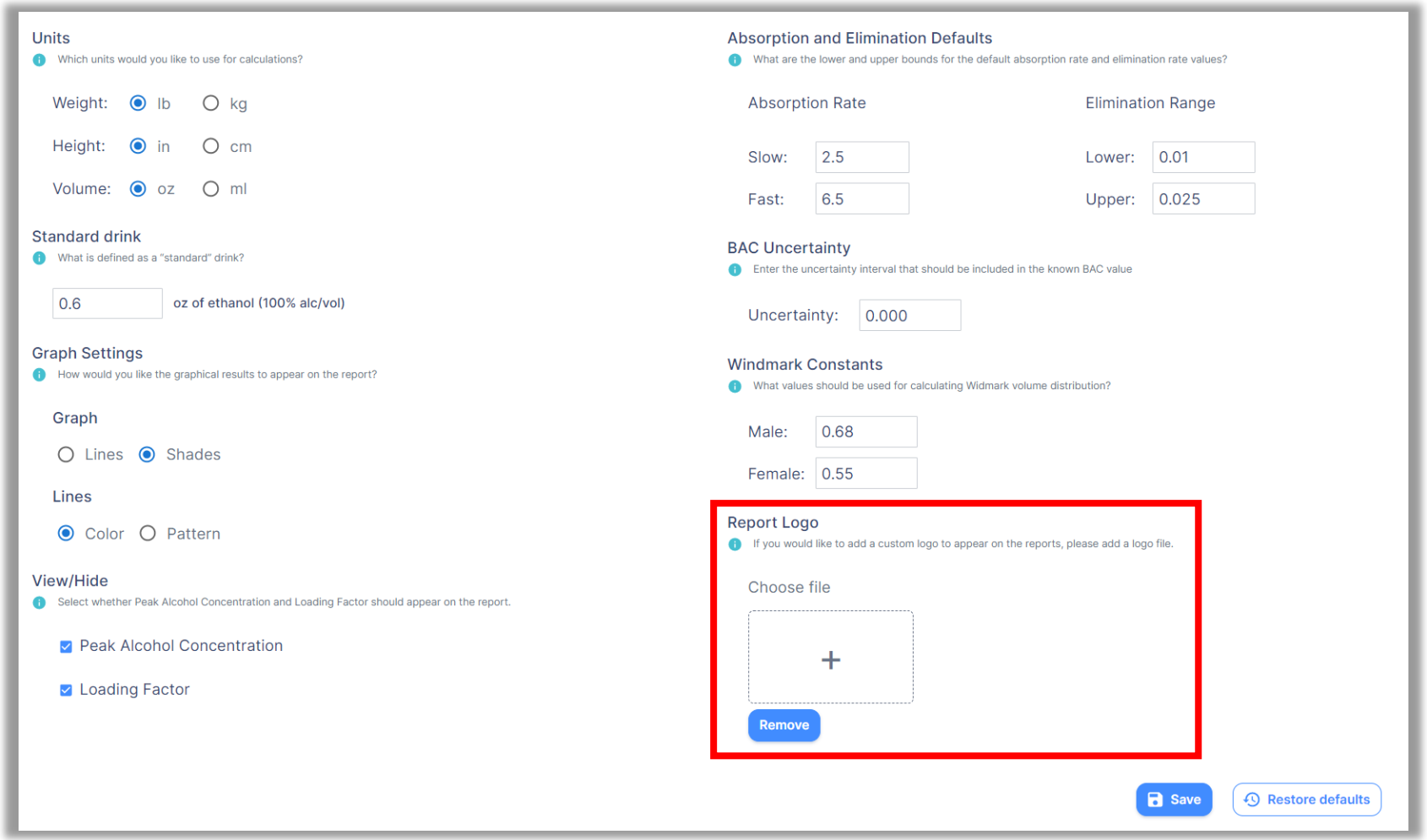
Upload your own logo to appear on each report, if desired.



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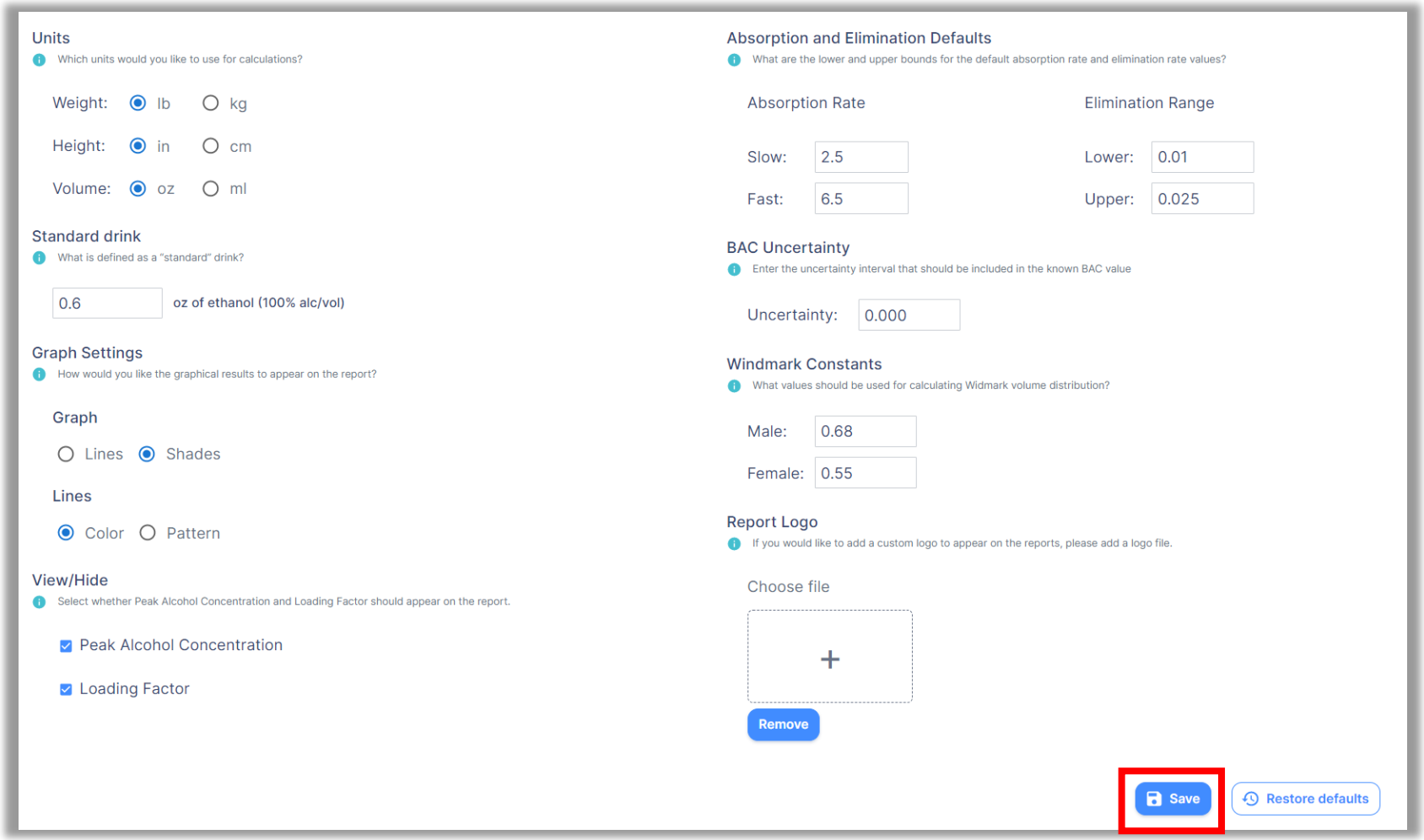
Once user defaults are entered, click “Save.”



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How to . . .

Create and Manage Case Files

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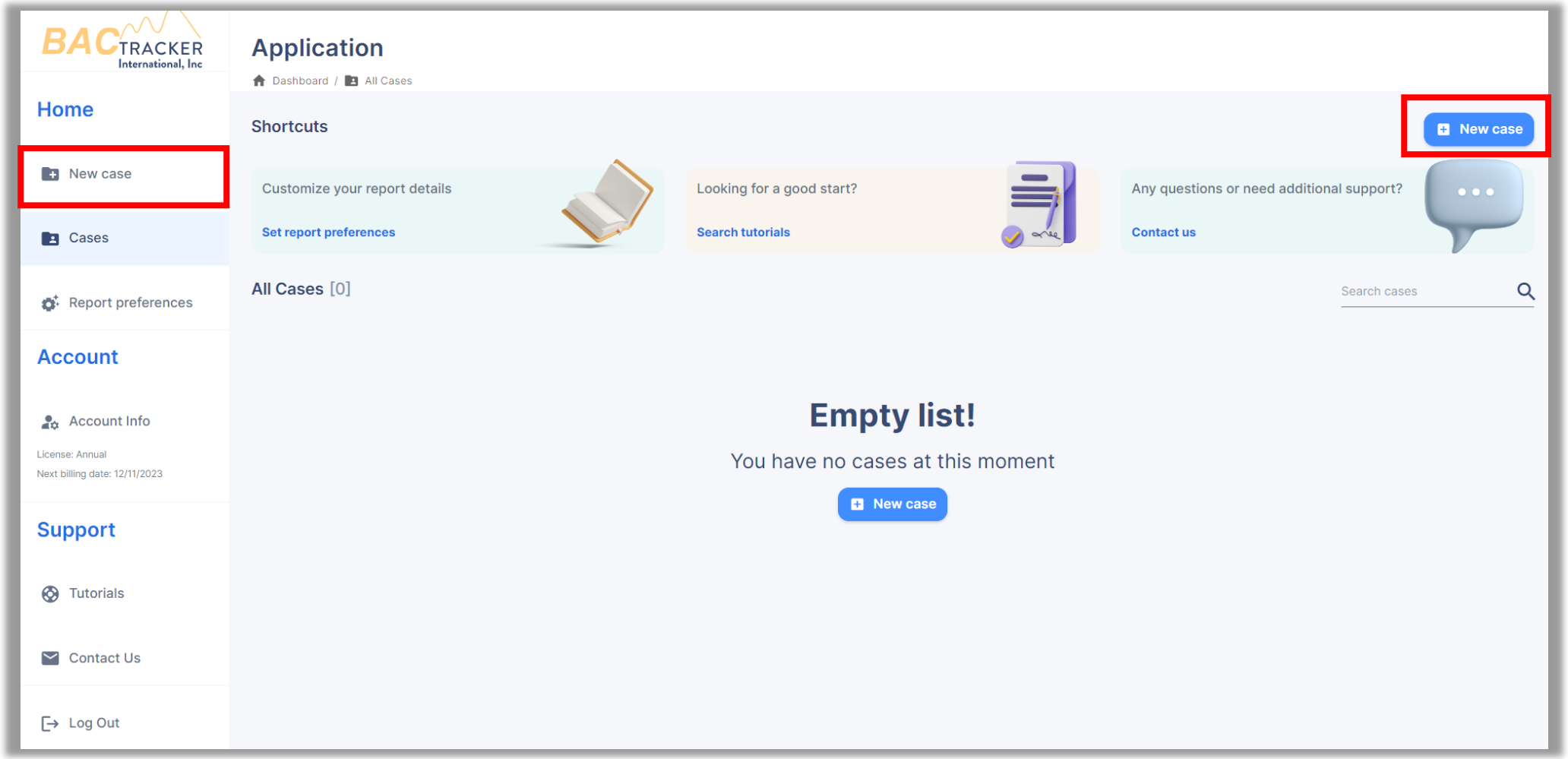
To create a new case, click “New Case”



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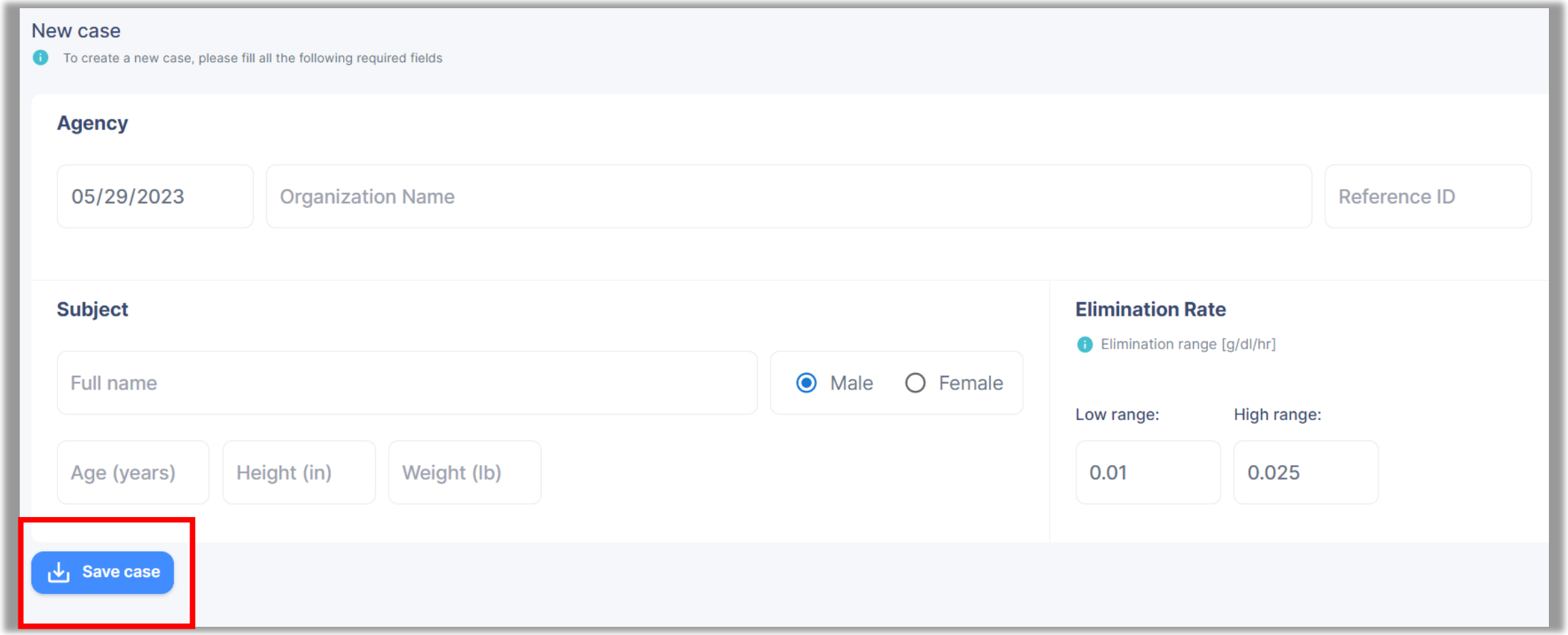
Enter the required information related to the case. When finished, click “Save case” to select which type of Alcohol Extrapolation Report to generate.



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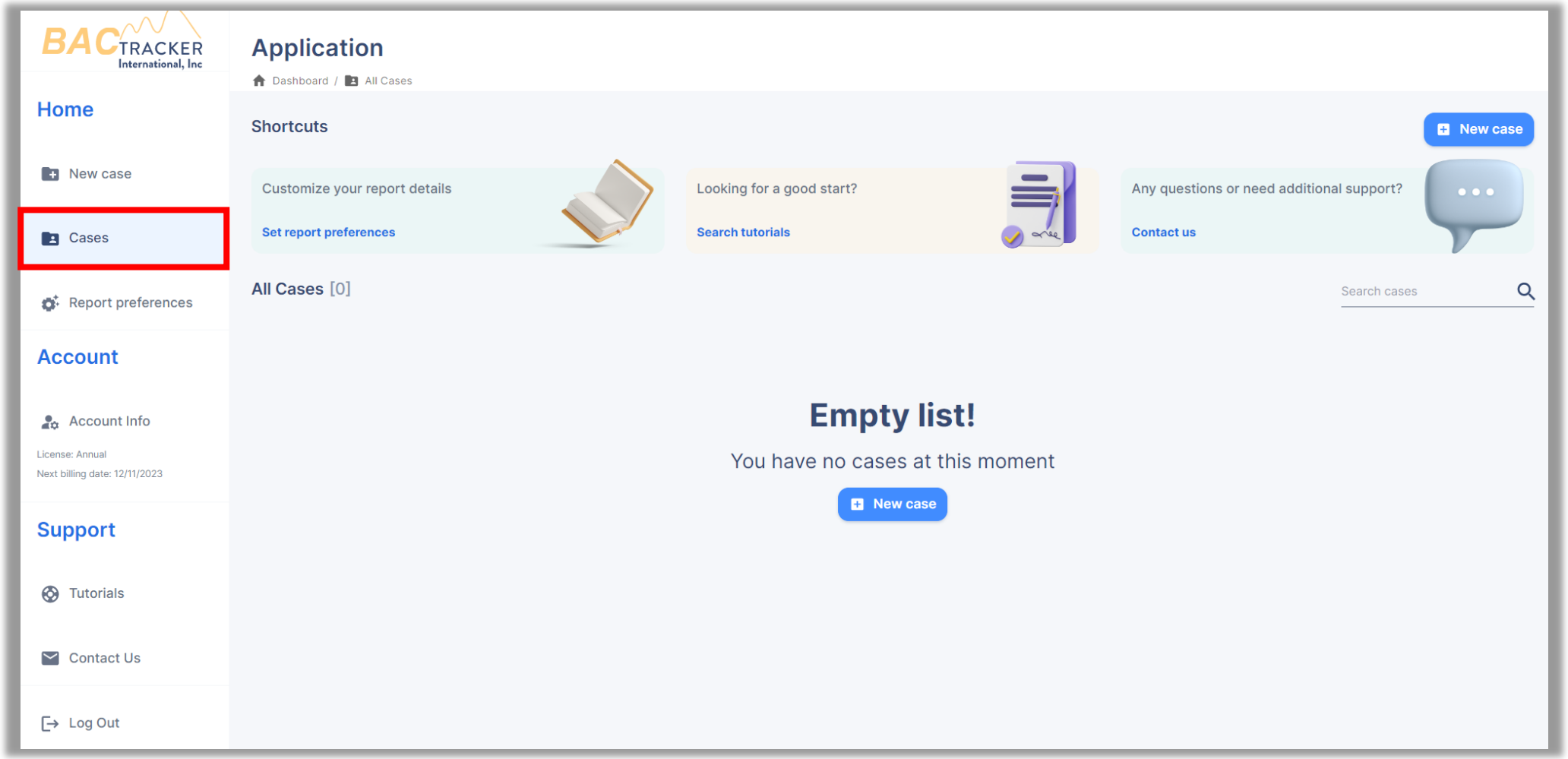
Previously created cases will appear on your main dashboard page. To open a previously created case, click “Cases”



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Once selected, the user will view a list of all cases that have been created in their account. Users can search for a specific Case by Organization, Ref. ID, or Subject Name. Users can also expand to view or edit the details of a specific case or select and delete specific Case(s).

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How to Generate . . .

Anterograde Alcohol Extrapolation Reports

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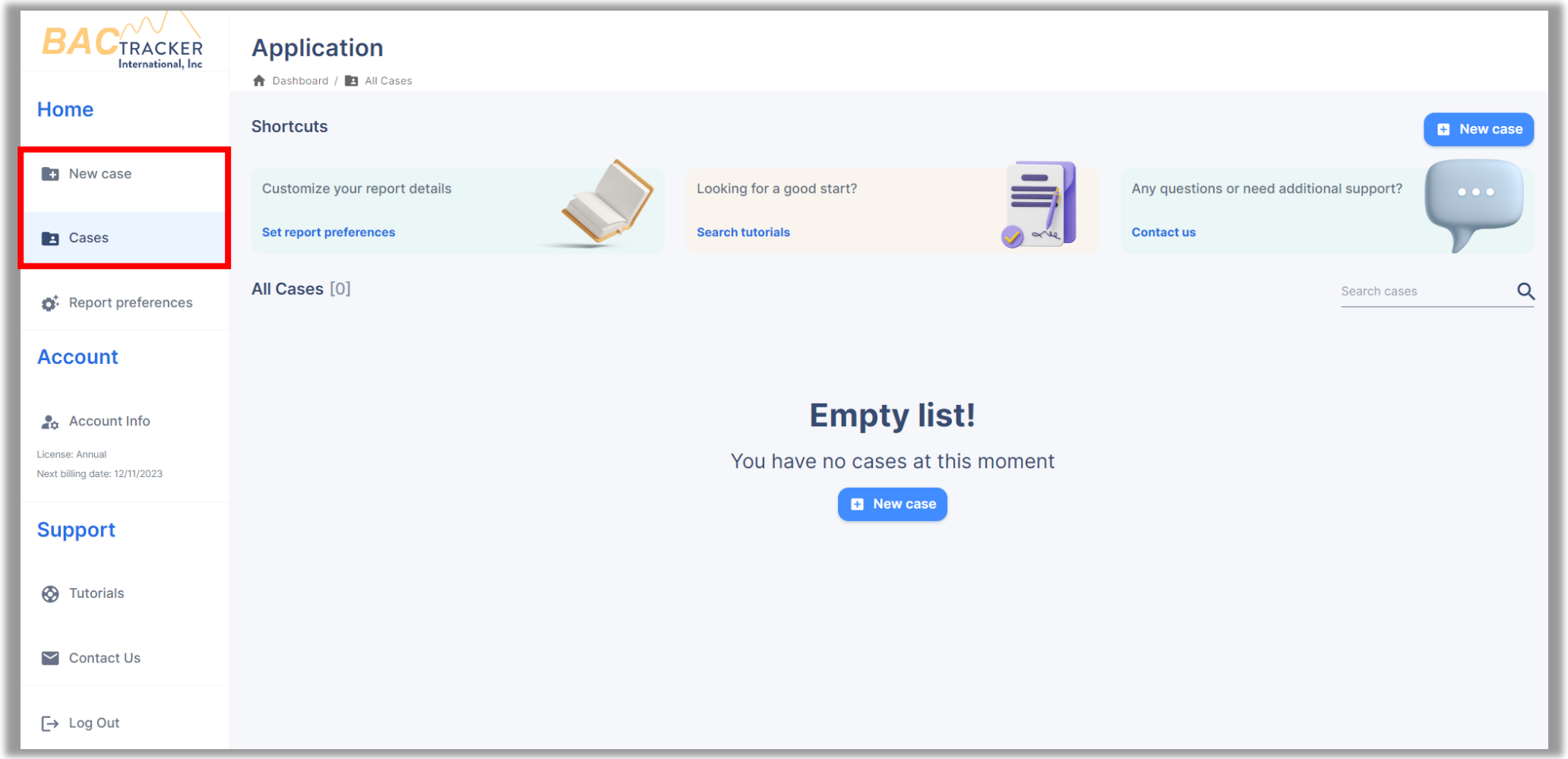
From the Dashboard, create a new case or open an existing case.



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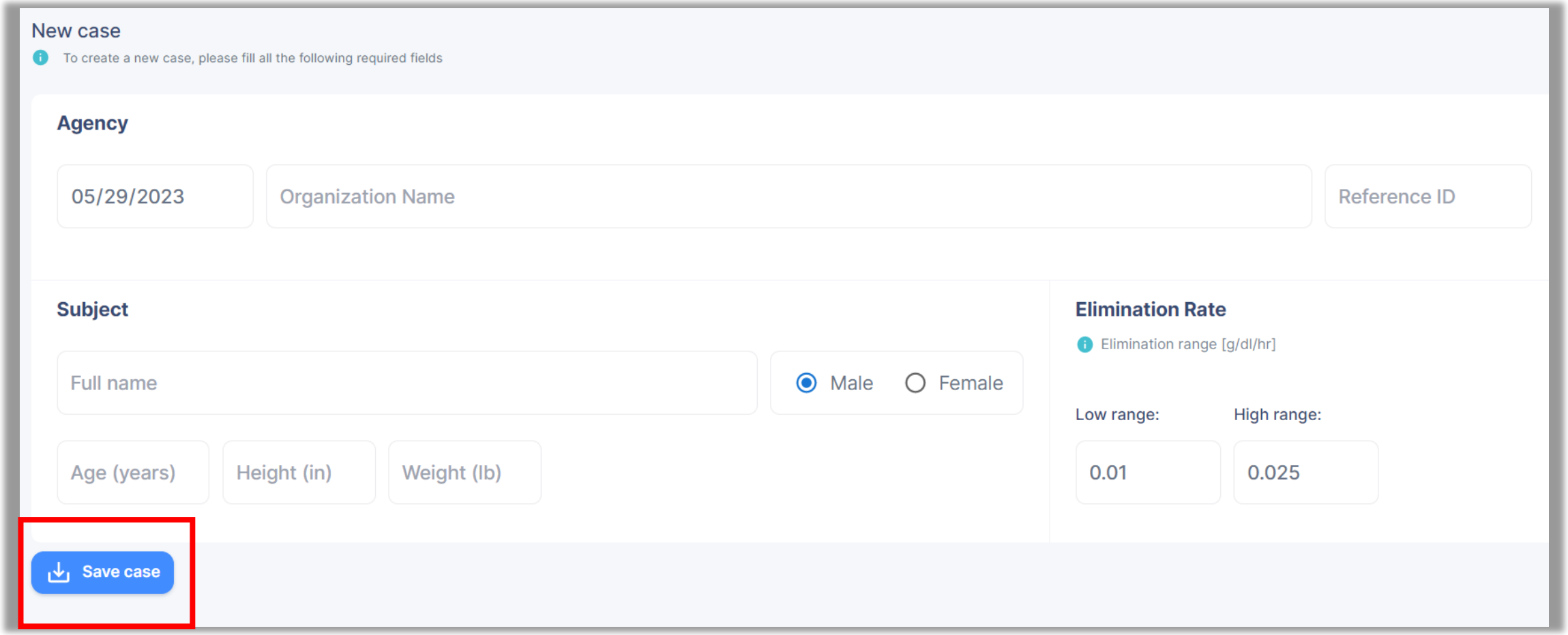
Ensure all required information is entered for the Case. When finished, click “Save case” to select which type of Alcohol Extrapolation Report to generate.



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Select “Anterograde Report”

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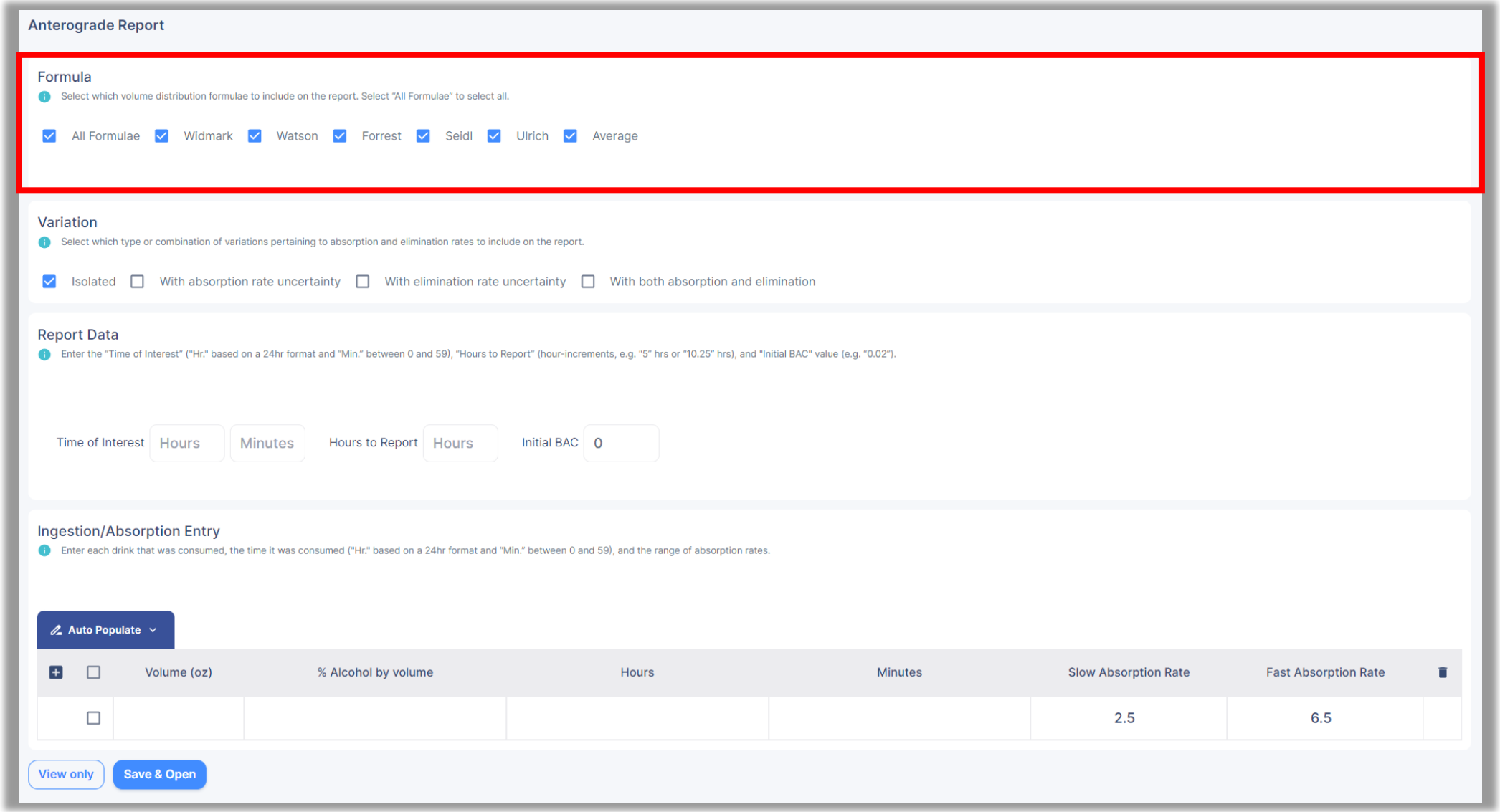
Select which volume distribution formulae to include on the report. Select “All Formulae” to select all.



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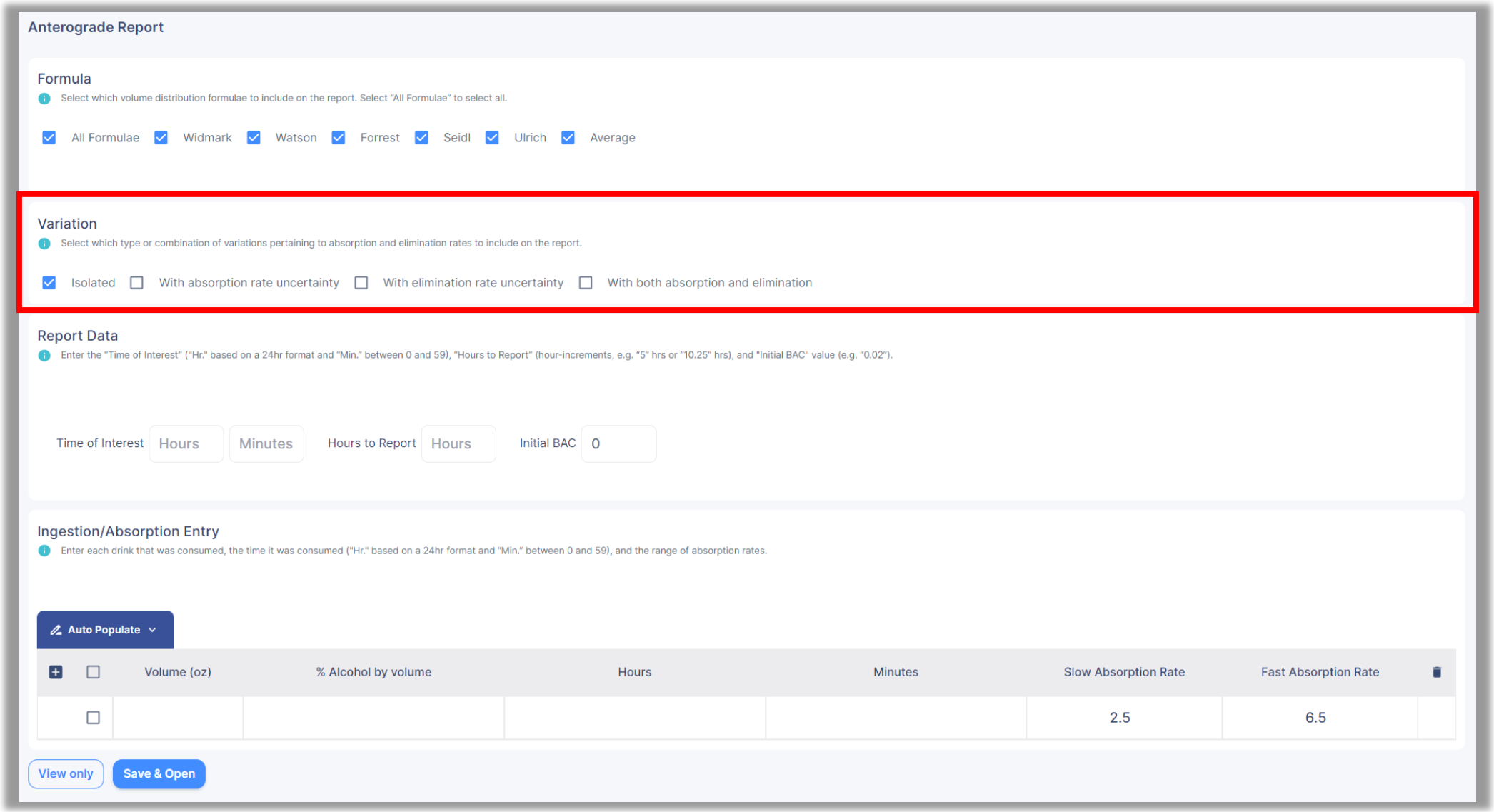
Select which type or combination of variations pertaining to absorption and elimination rates to include on the report.



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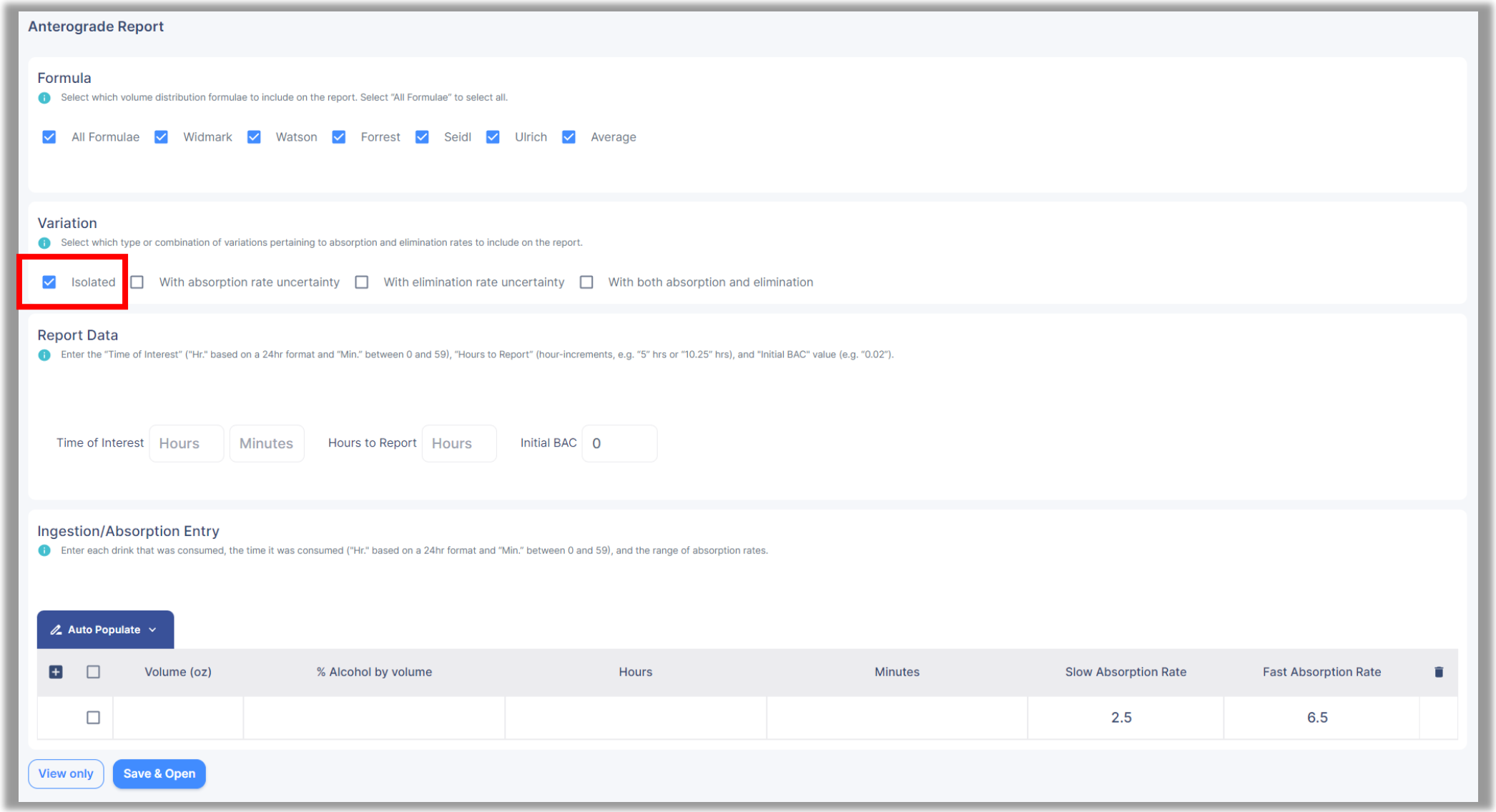
"Isolated" uses the average absorption and elimination rates.



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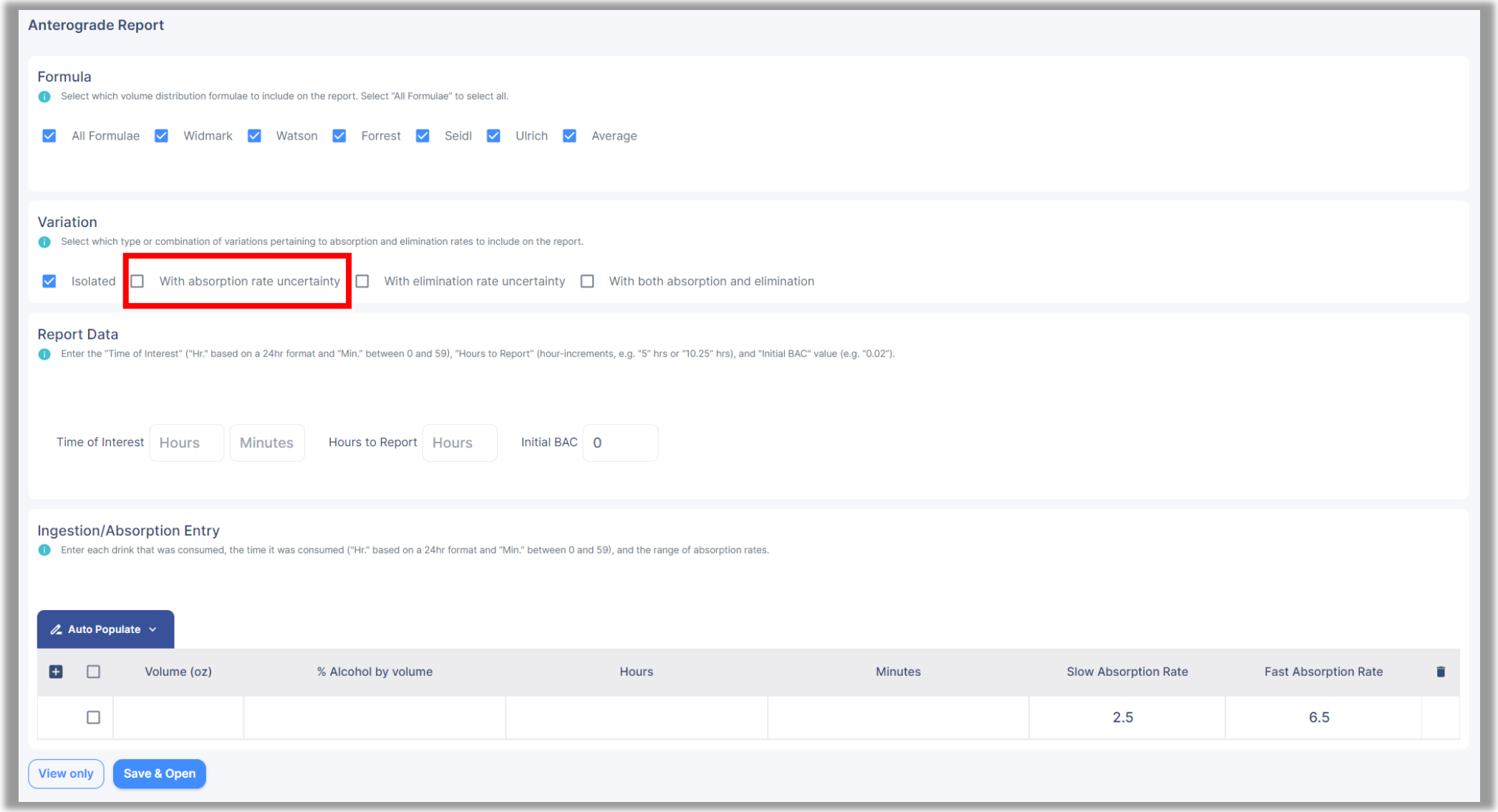
"With absorption rate uncertainty" calculates a range of BAC values using both absorption rates entered for each drink and the average rate of elimination.



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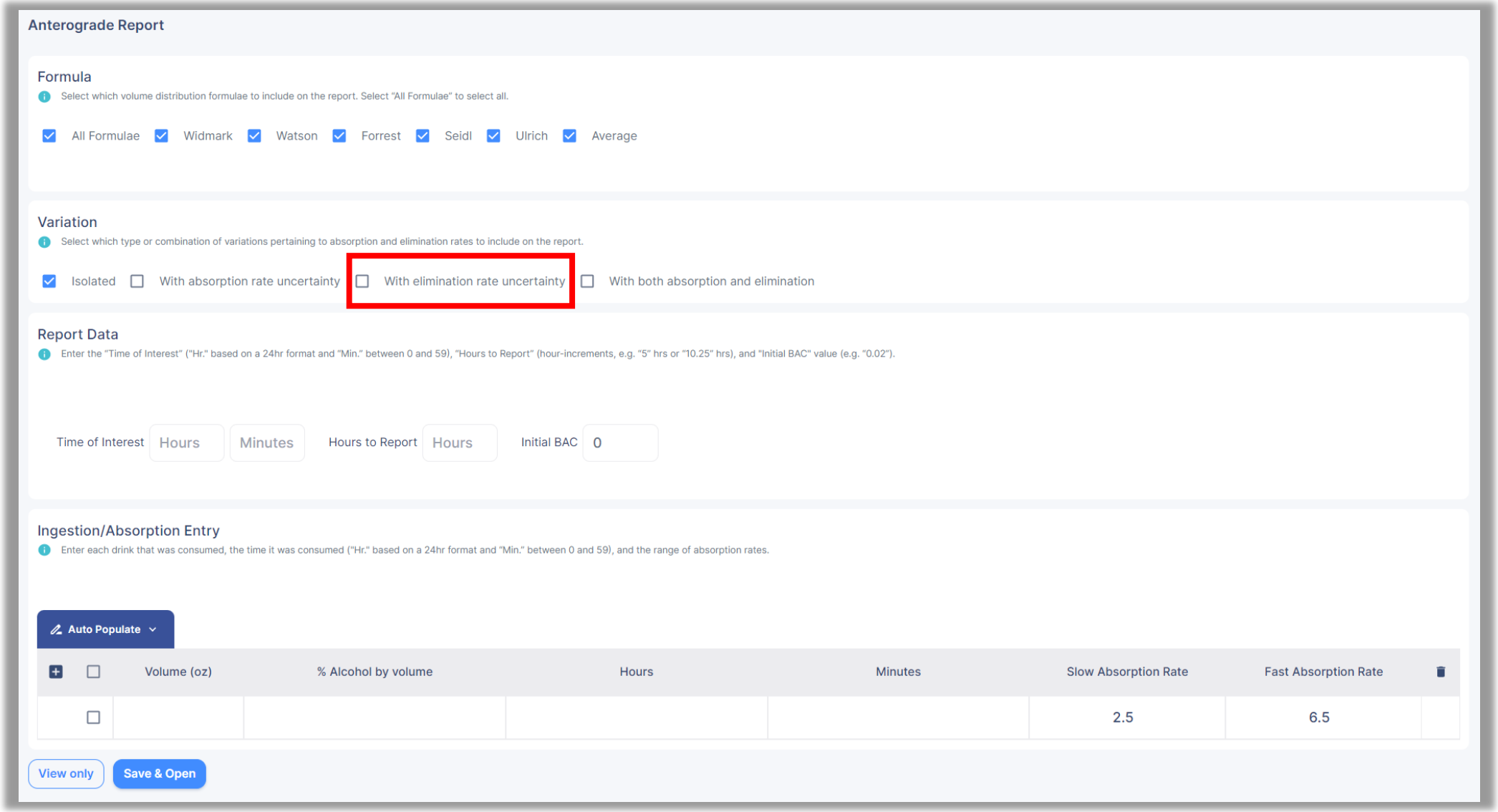
"With elimination rate uncertainty" calculates a range of BAC values using the average absorption rate entered for each drink and both rates of elimination.



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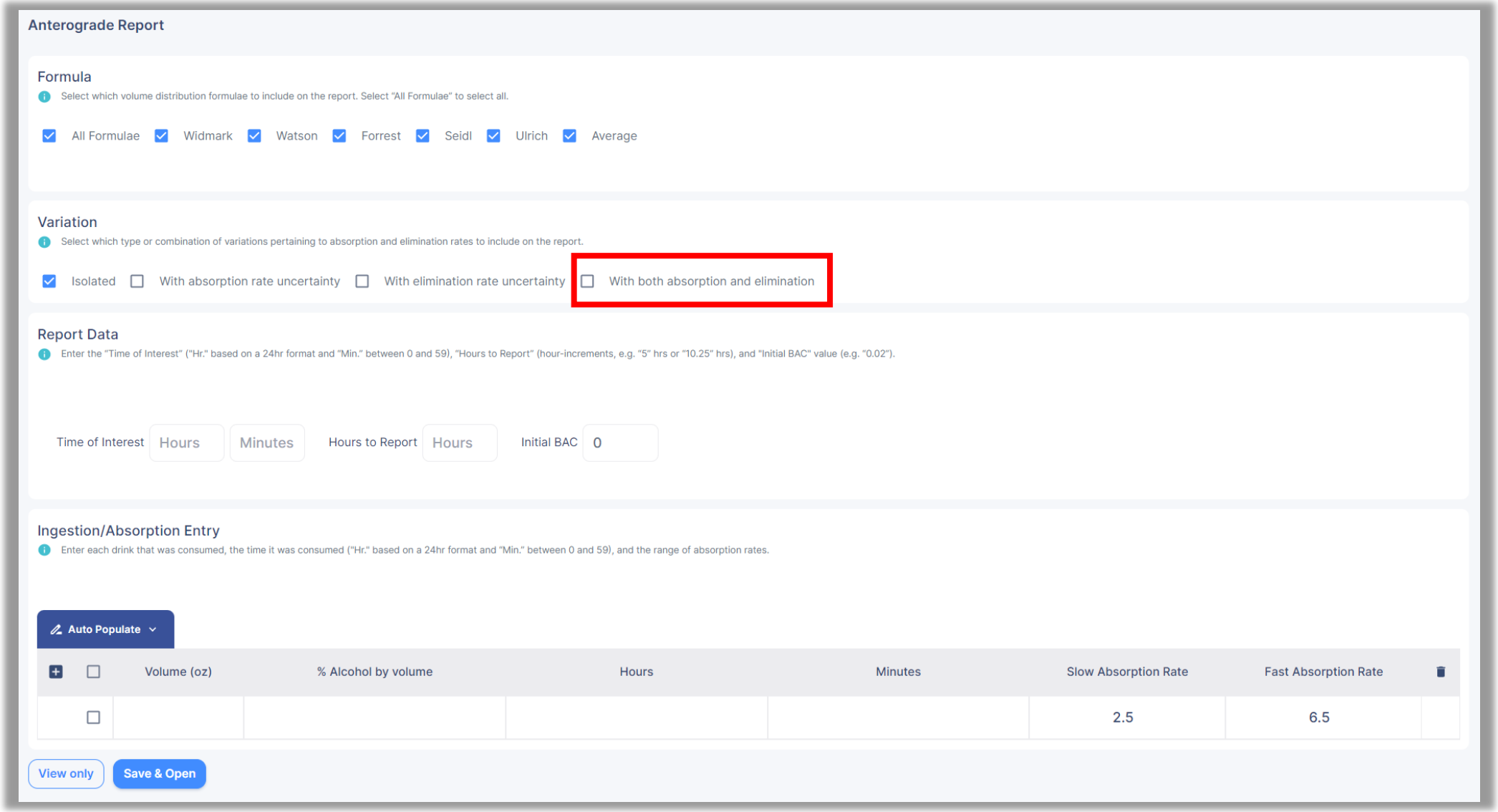
"With both absorption and elimination" calculates a range of BAC values using both absorption rates entered for each drink and both rates of elimination.



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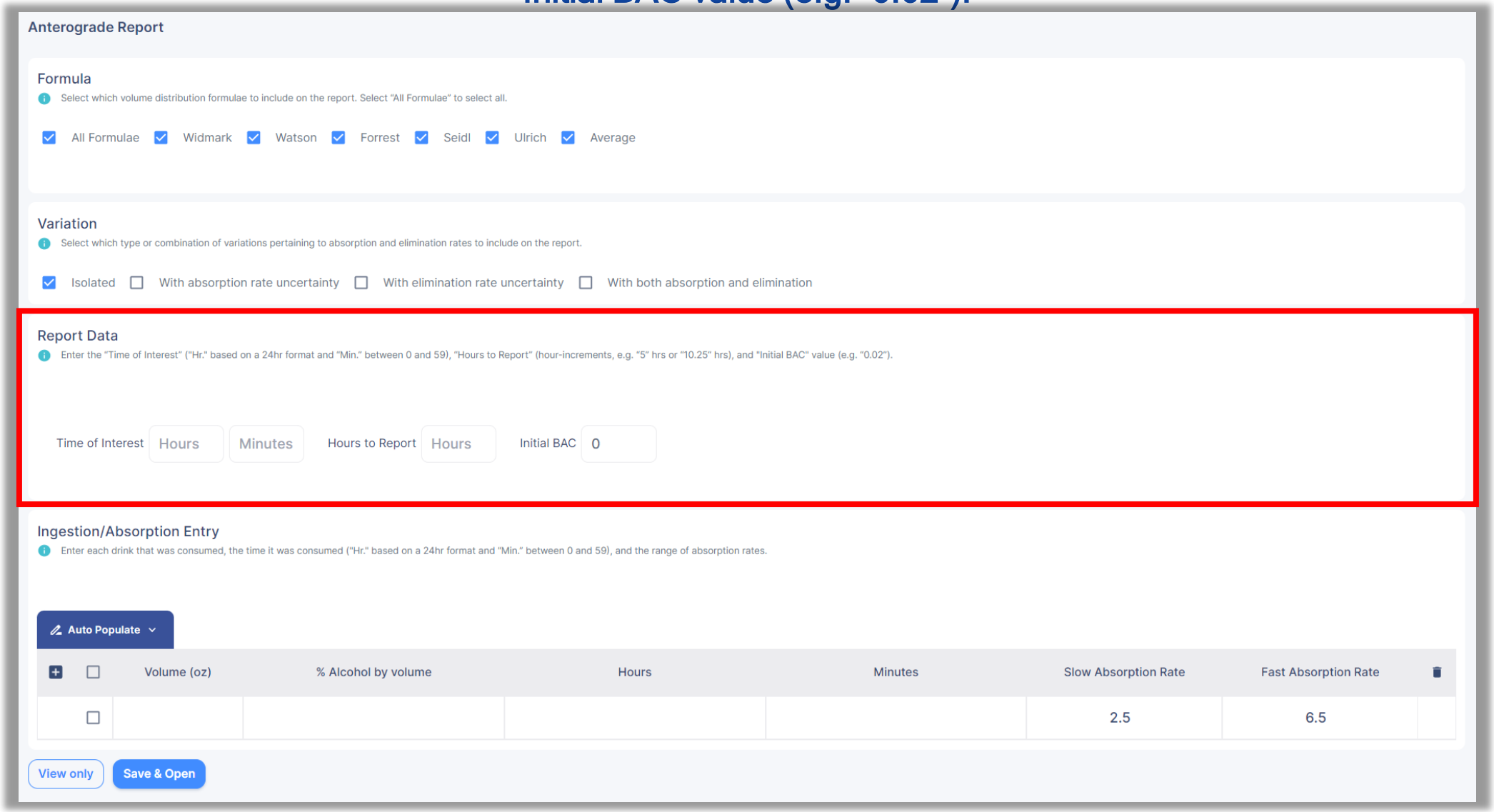
Enter the “Time of Interest” ("Hr." based on a 24hr format and “Min.” between 0 and 59), “Hours to Report” (hour-increments, e.g. “5” hrs or “10.25” hrs), and Initial BAC value (e.g. “0.02”).



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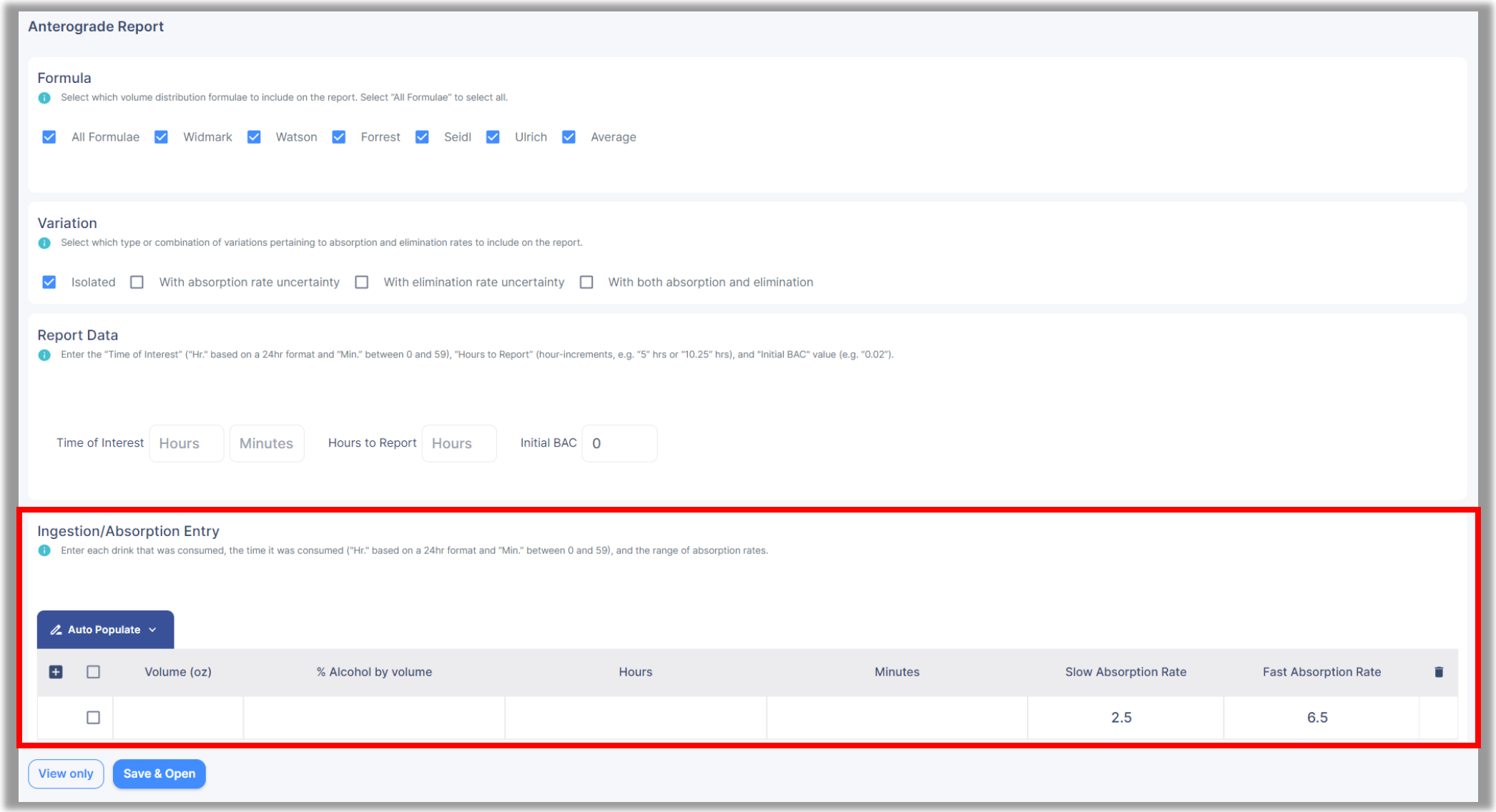
Enter each drink that was consumed, the time it was consumed ("Hr." based on a 24hr format and “Min.” between 0 and 59), and the range of absorption rates.



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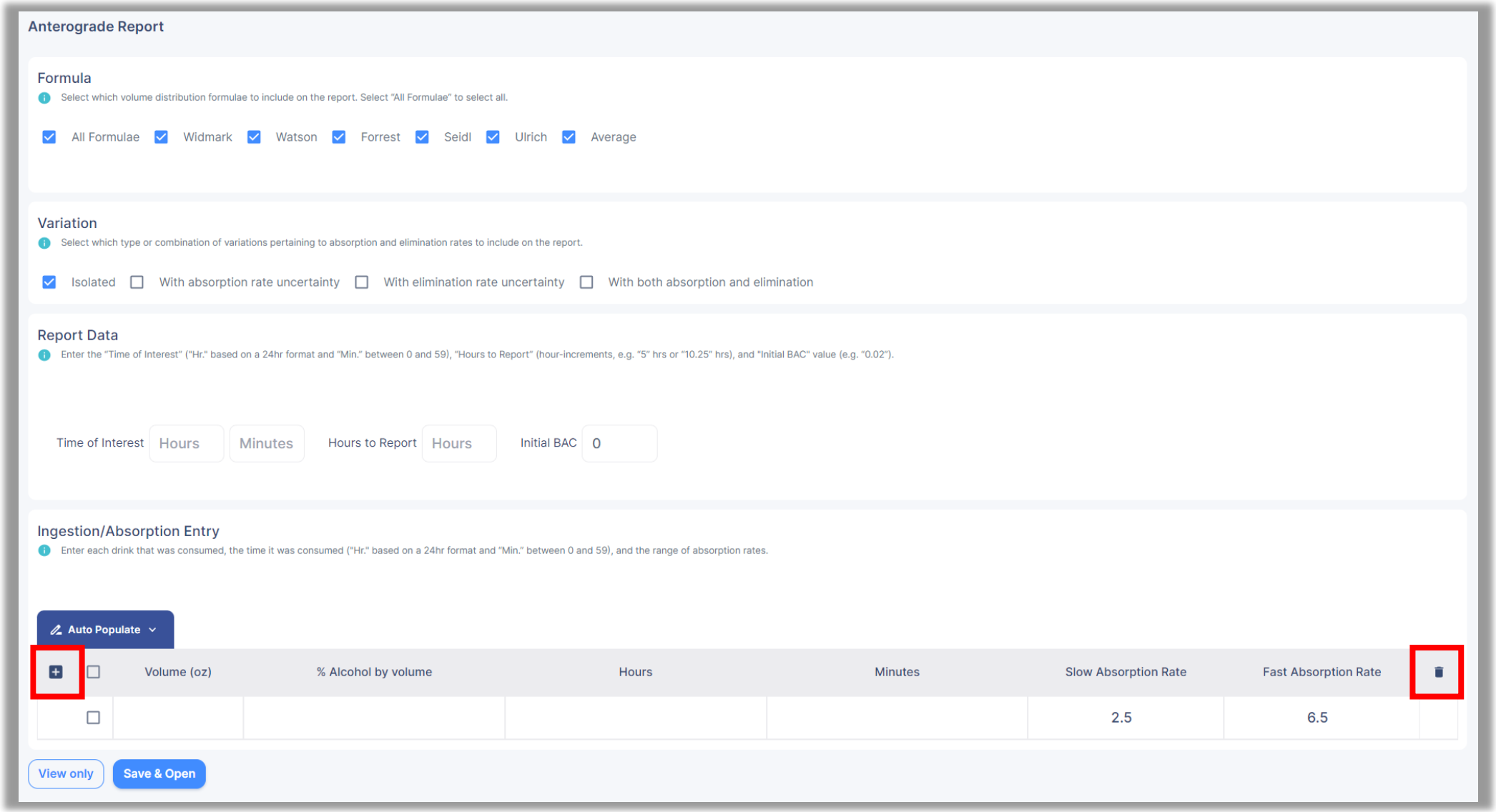
Click the icon(s) to add a new row or delete a selected row on the table.



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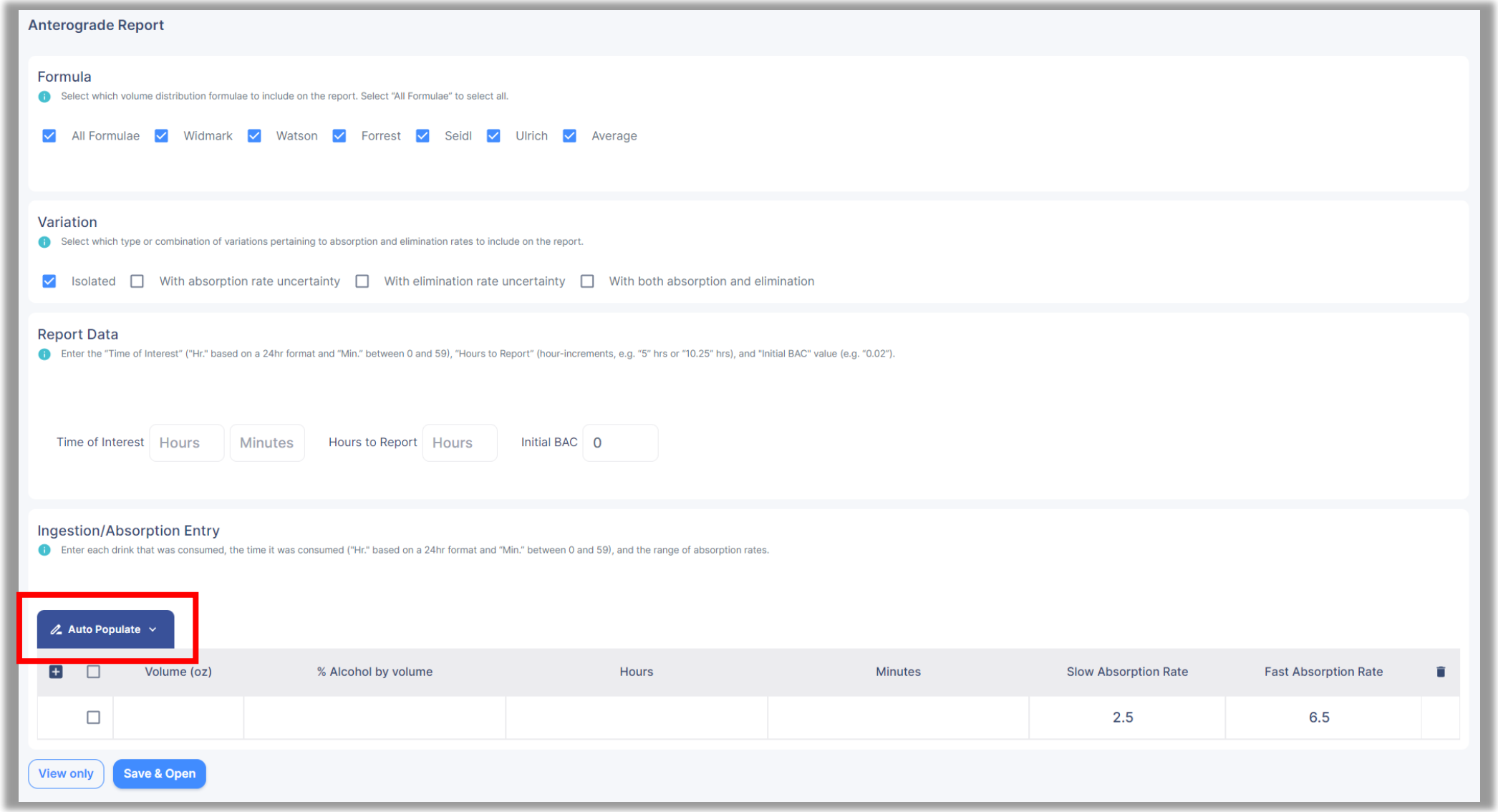
Click to use the Auto Populate feature for bulk drink entry. Once selected, a new data entry field will appear above the table to enter bulk consumption details.



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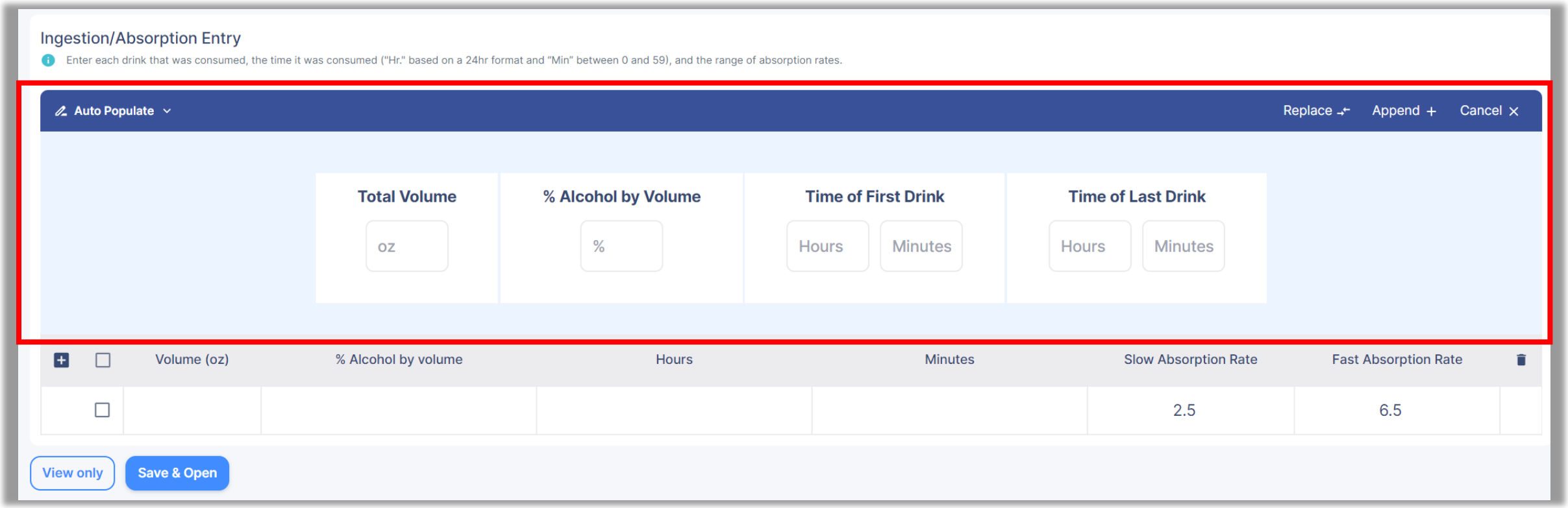
Enter the total volume of alcohol consumed, the % alc/vol, and the times of first and last drink consumption ("Hr." based on a 24hr format and “Min.” between 0 and 59).



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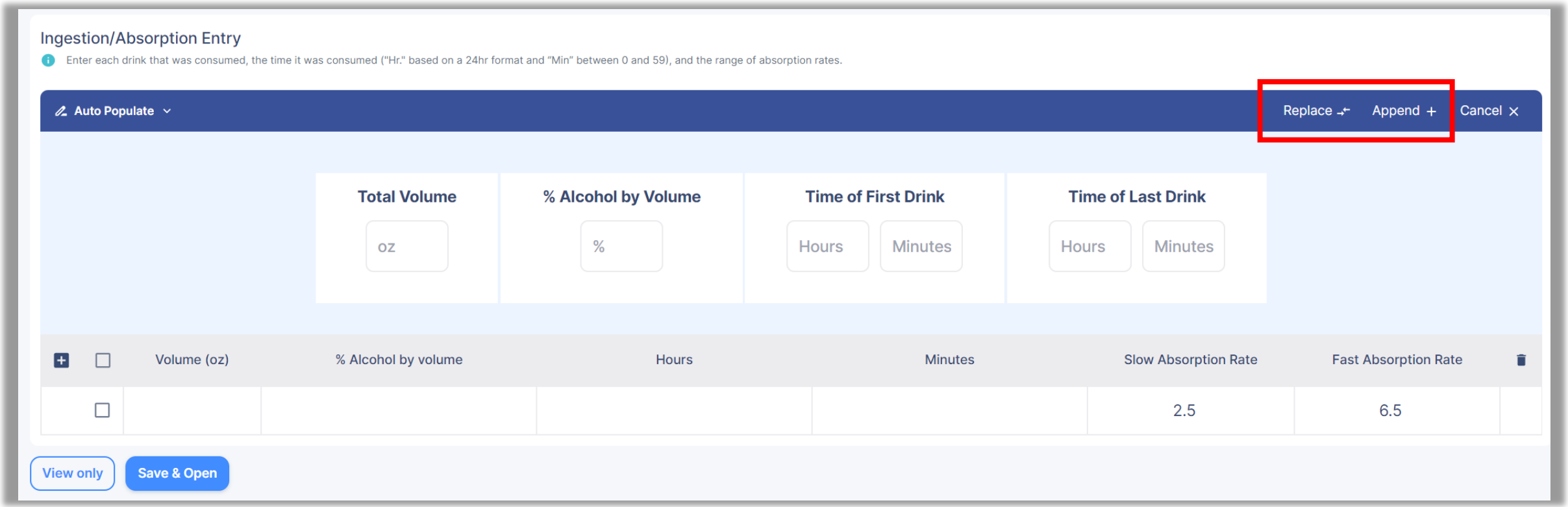
Once bulk drink details are entered, click “Append” to add the new drink entries to the end of those already in the table or click “Replace” to clear the table and add the new drink entries to the table.



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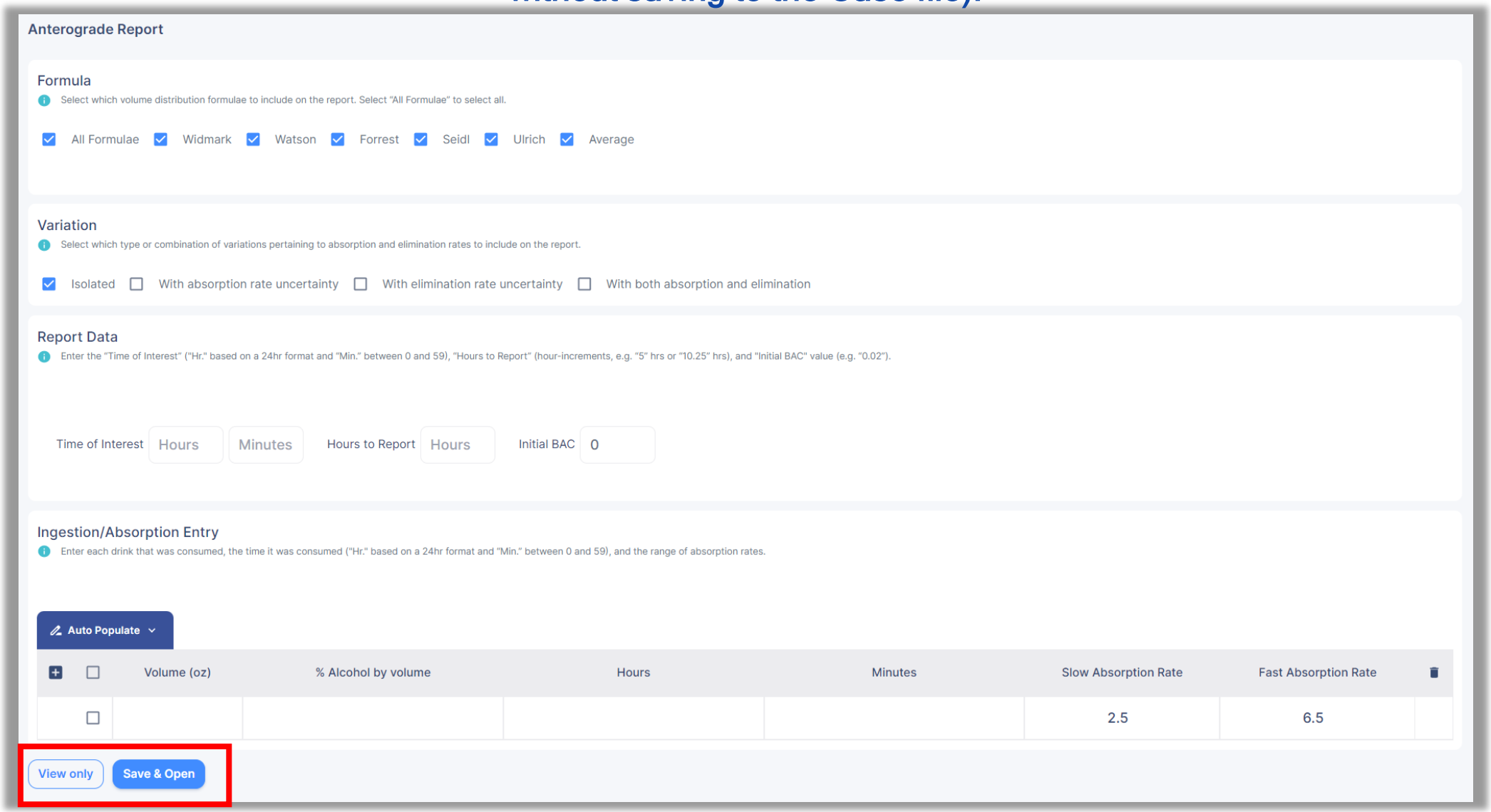
Once all required fields are entered, click “Save & Open” (to save a copy of the report in the Case file) or “View Only” (to view the report in a new browser window without saving to the Case file).



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How to Generate . . .

Retrograde Alcohol Extrapolation Reports (Type I)

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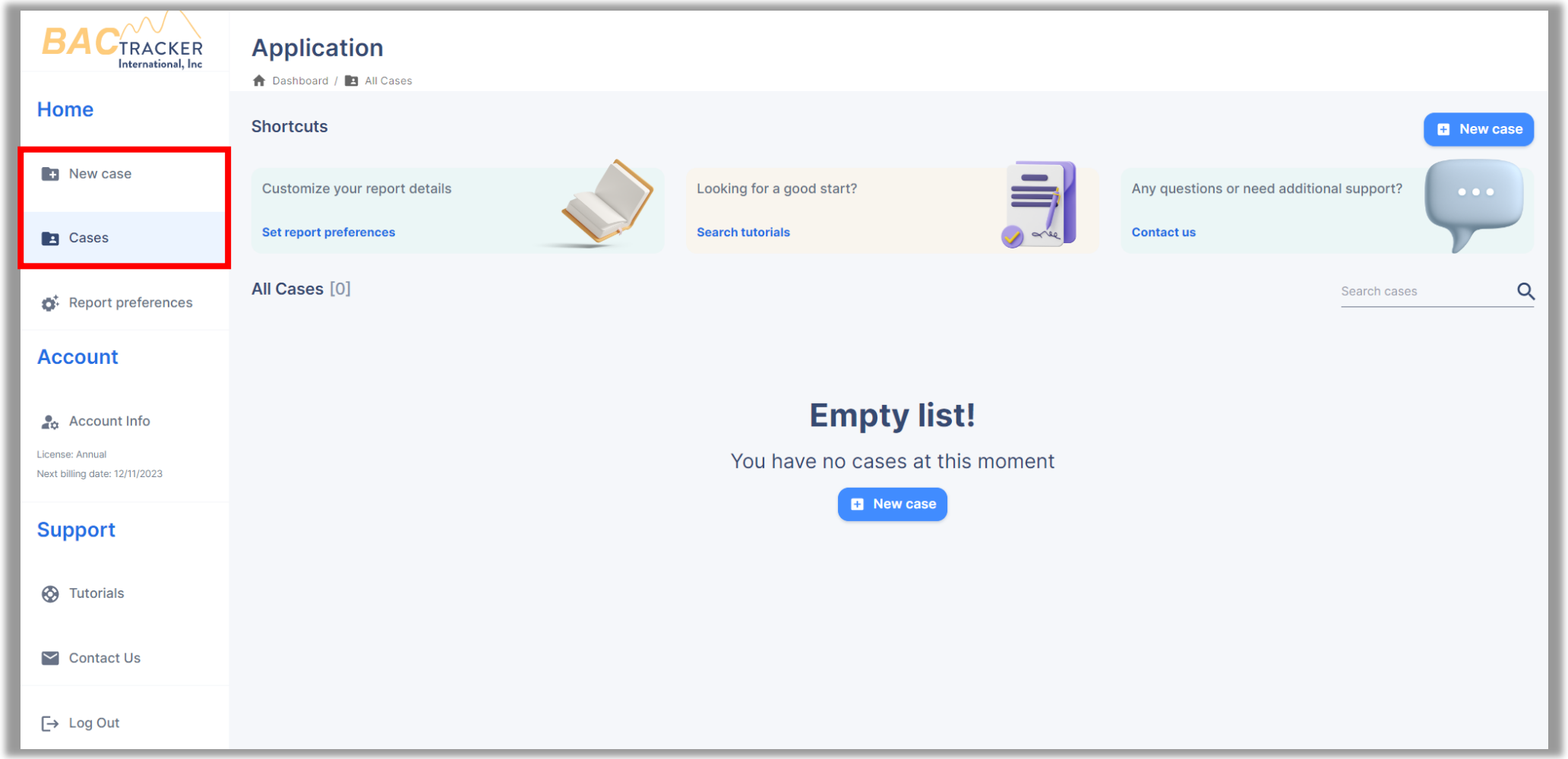
From the Dashboard, create a new case or open an existing case.



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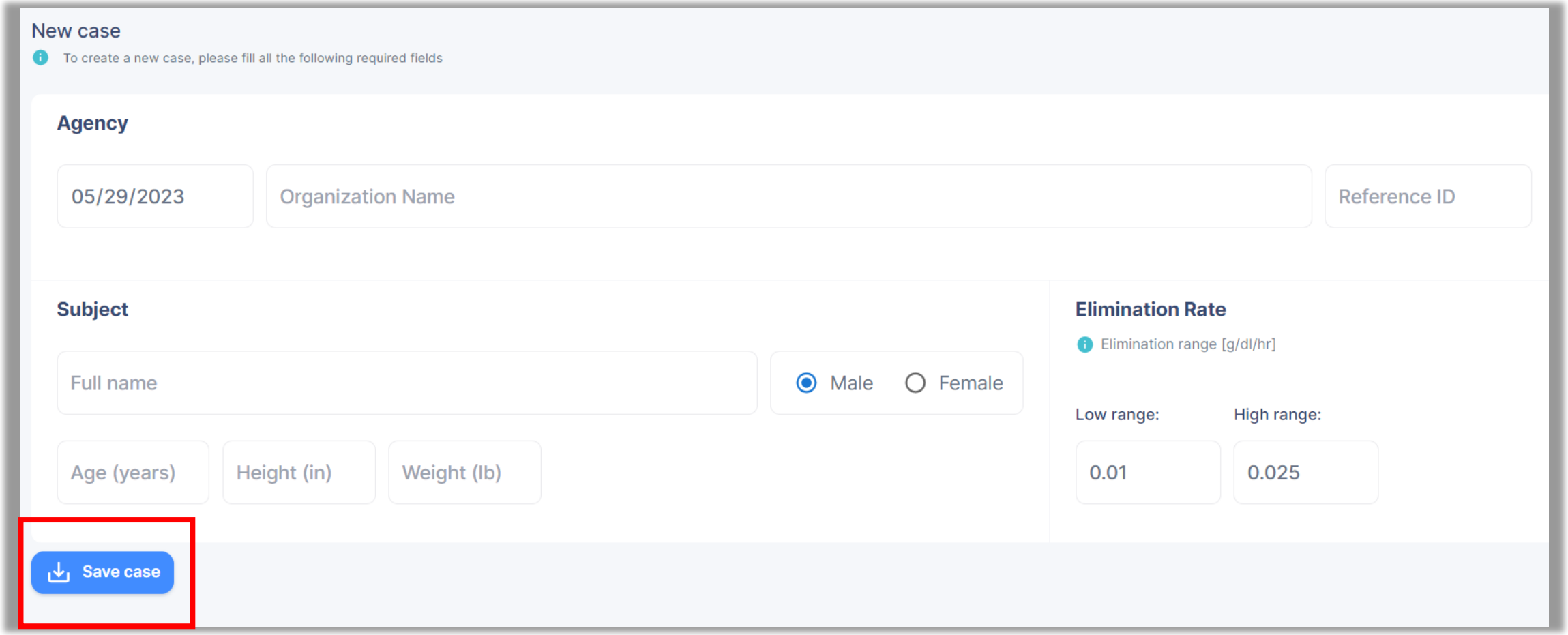
Ensure all required information is entered for the Case. When finished, click “Save case” to select which type of Alcohol Extrapolation Report to generate.



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Select “Retrograde Report”

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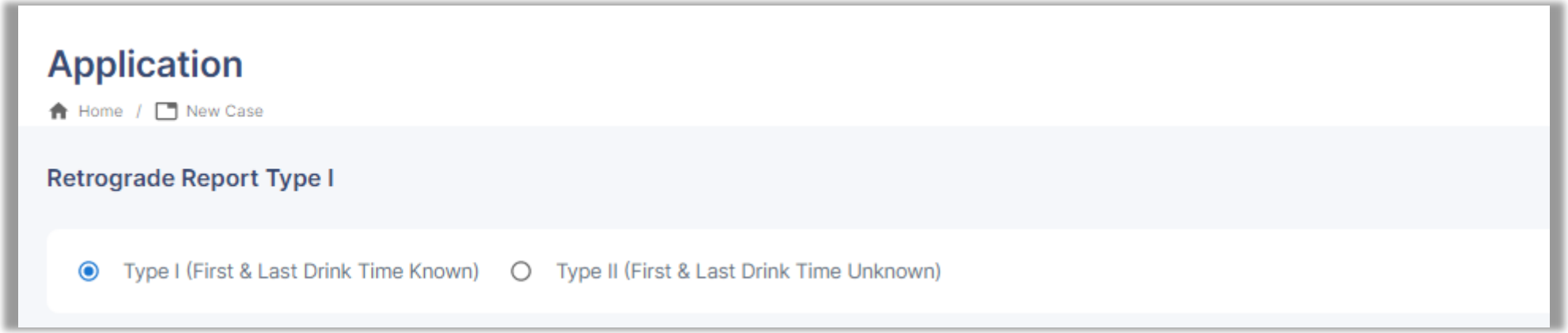
Select which Type of Retrograde Report to generate (Type I or Type II). If the Time of First Drink and Time of Last Drink are known, generate a Type I Report. If the Time of First Drink and Time of Last Drink are not known, generate a Type II Report. Once selected, the relevant data entry fields will appear below the Type Selection section of the screen.



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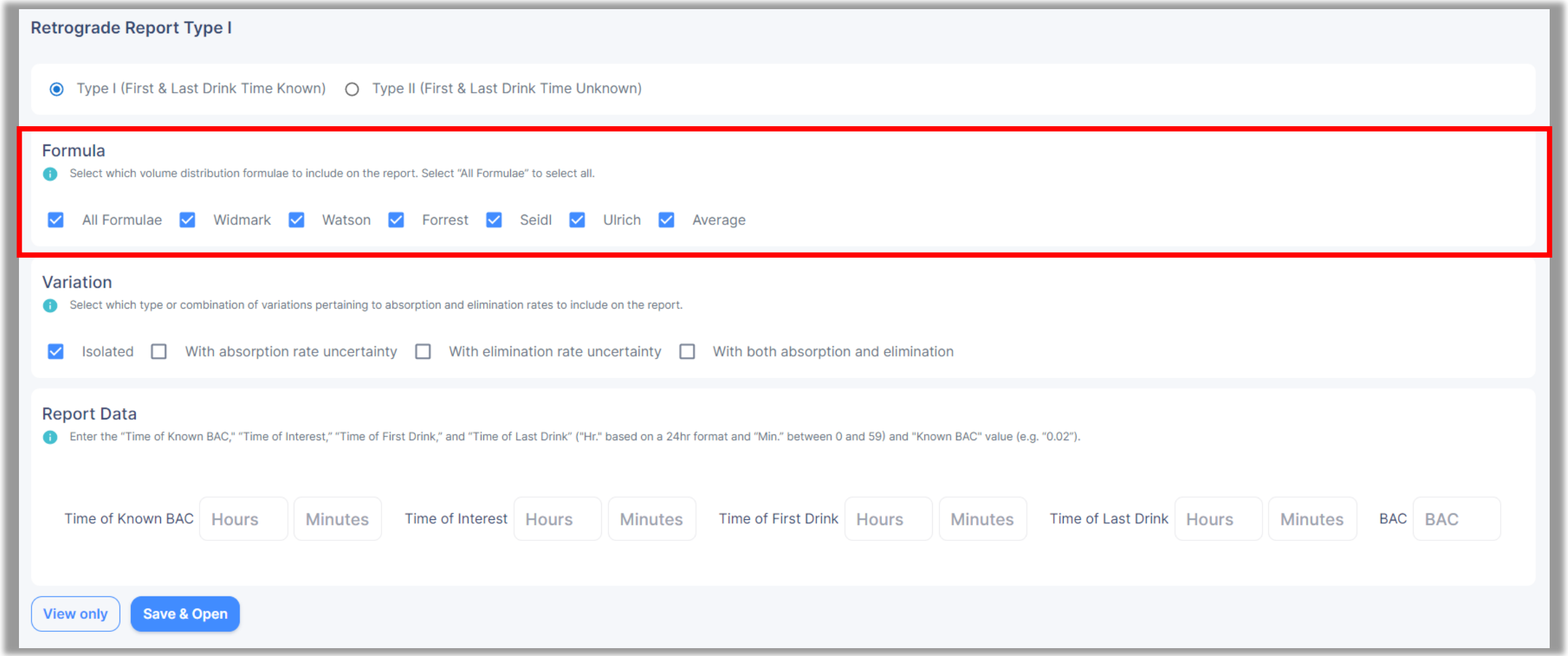
Select which volume distribution formulae to include on the report. Select “All Formulae” to select all.



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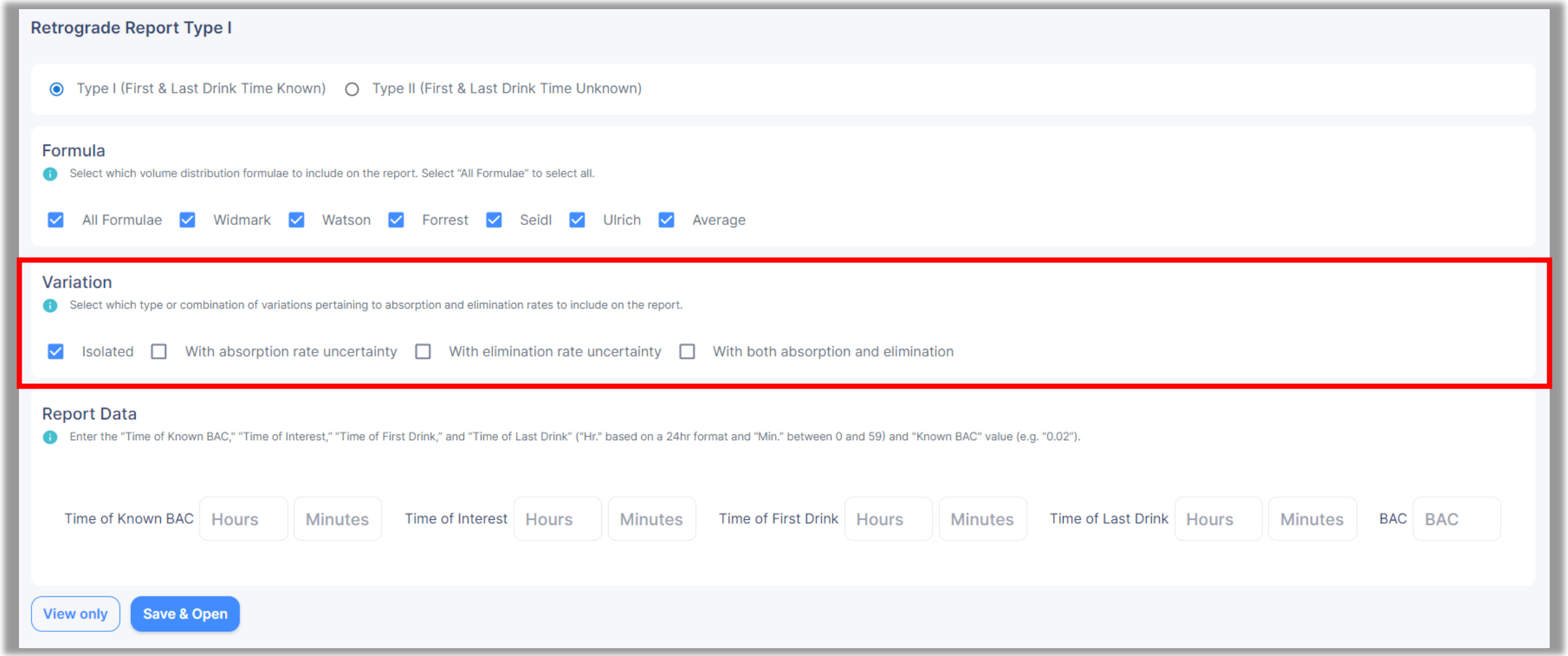
Select which type or combination of variations pertaining to absorption and elimination rates to include on the report.



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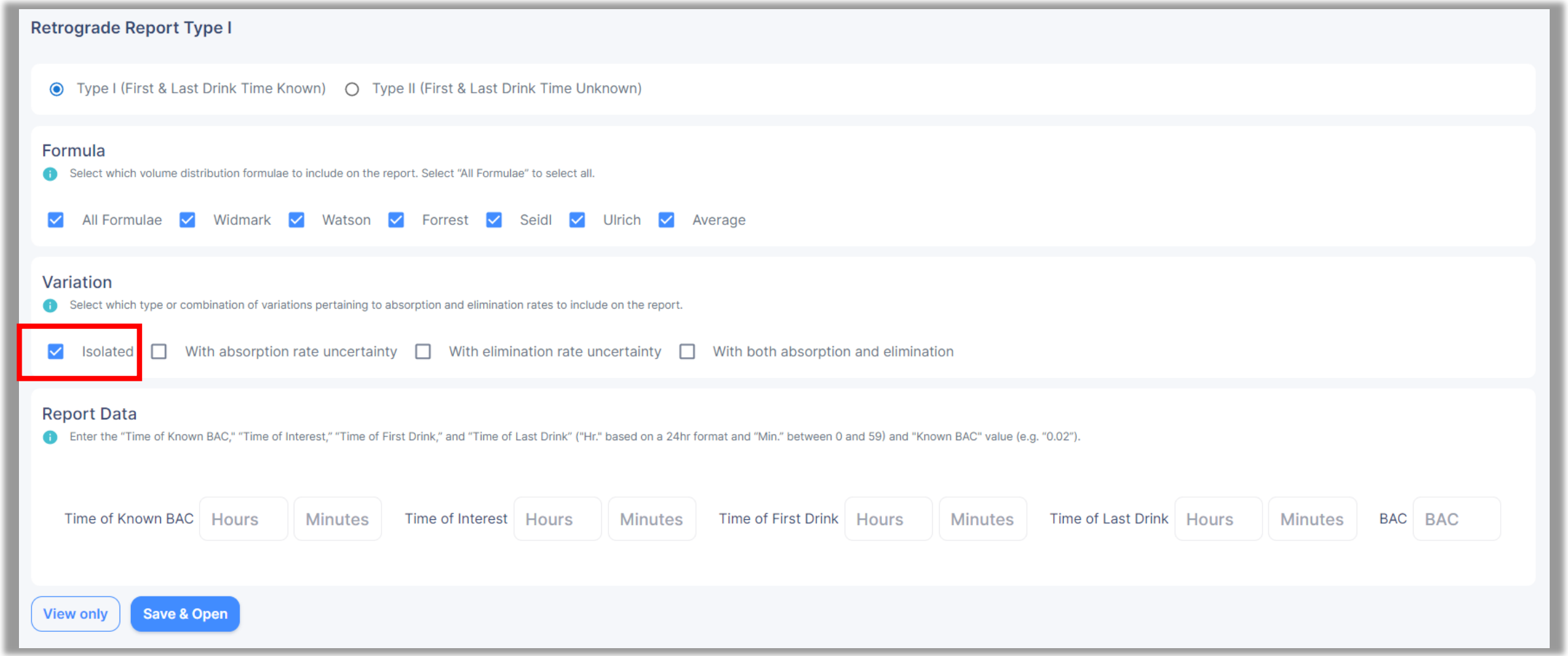
"Isolated" uses the average absorption and elimination rates.



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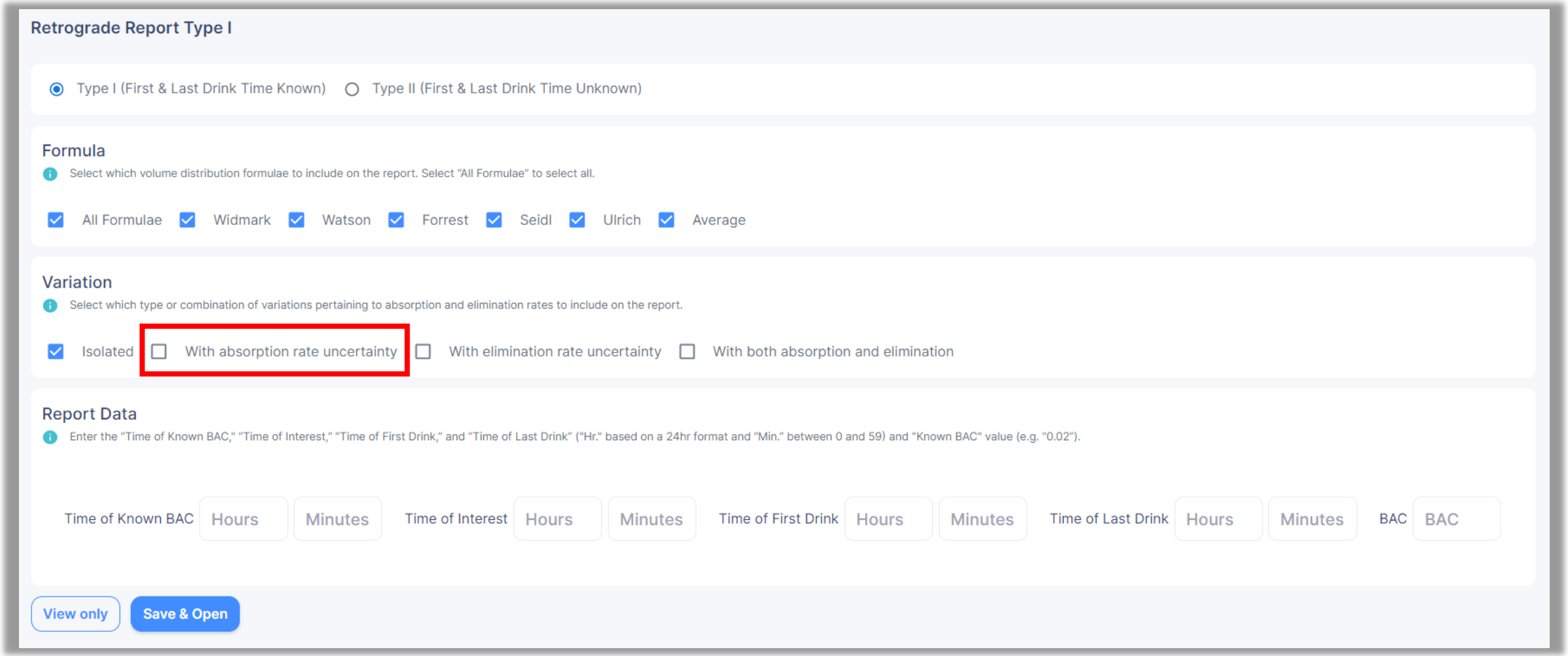
"With absorption rate uncertainty" calculates a range of BAC values using both absorption rates entered for each drink and the average rate of elimination.



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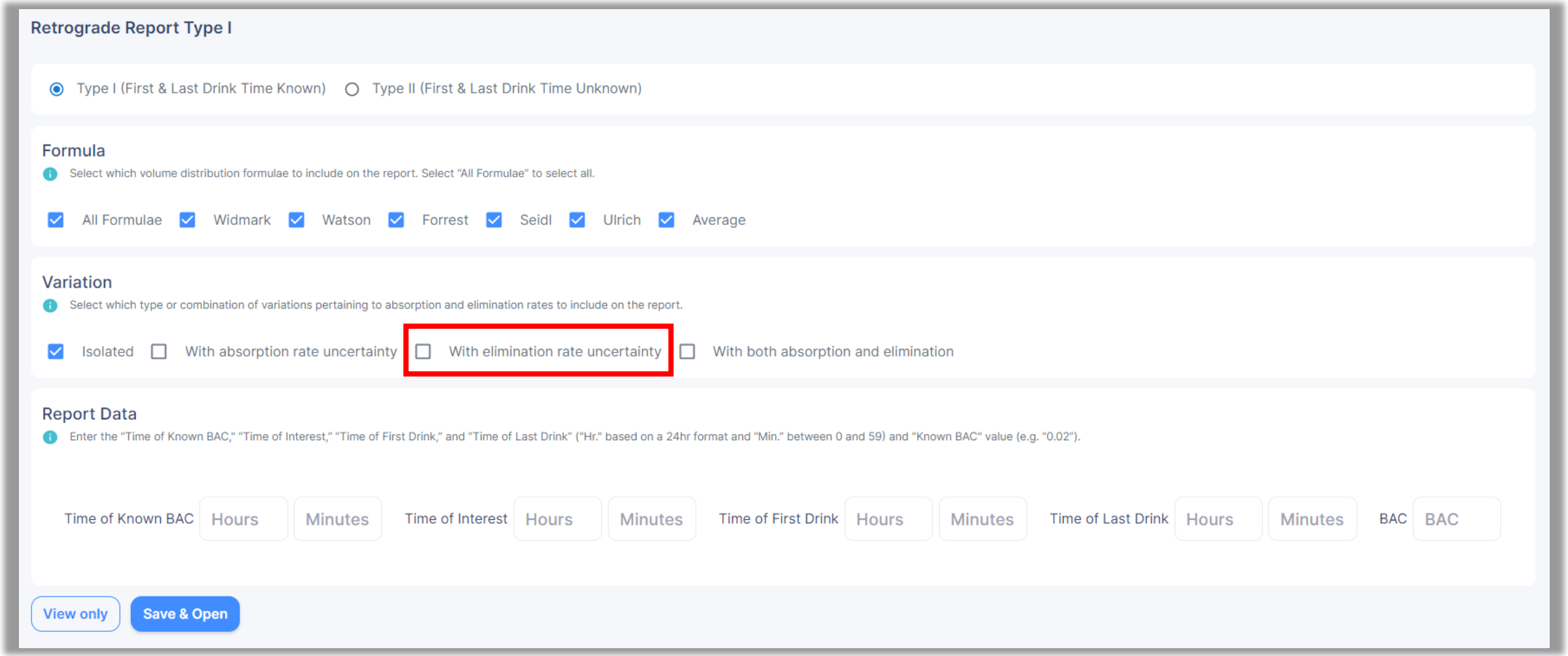
"With elimination rate uncertainty" calculates a range of BAC values using the average absorption rate entered for each drink and both rates of elimination.



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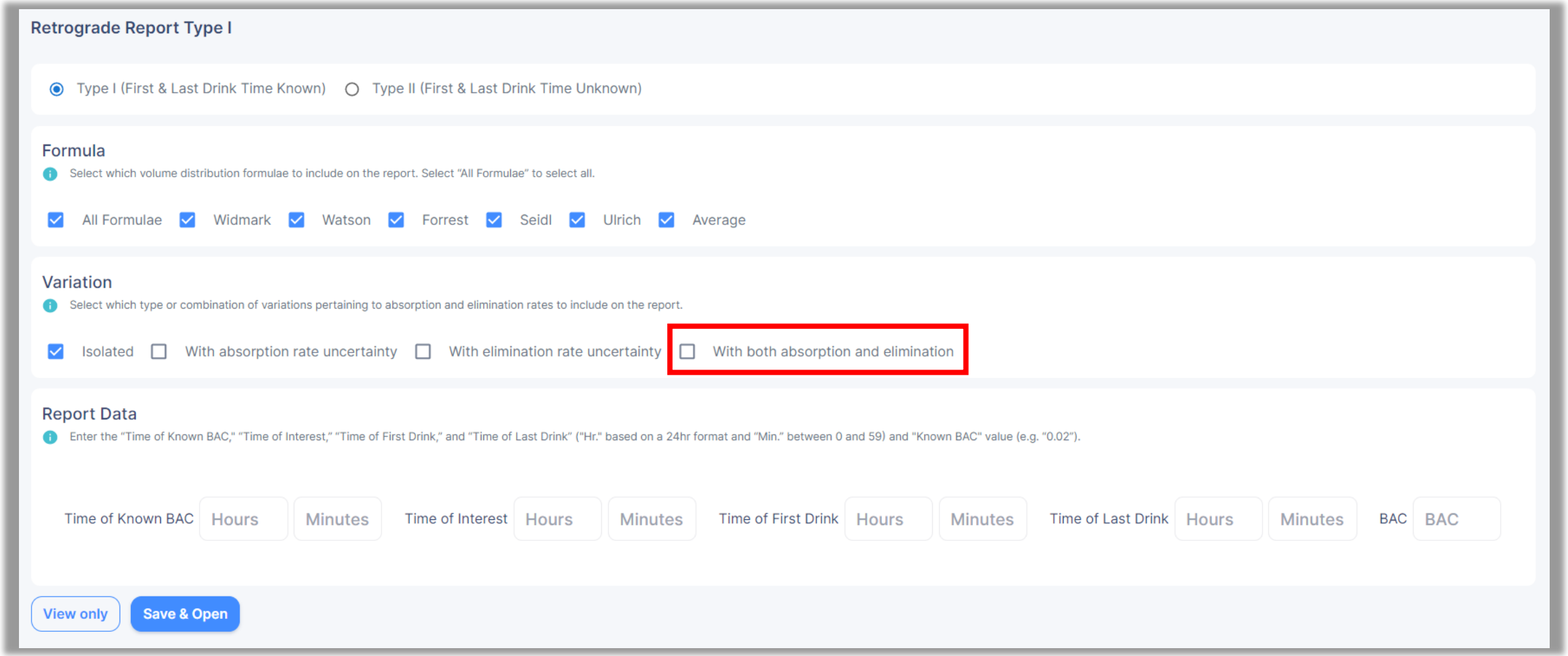
"With both absorption and elimination" calculates a range of BAC values using both absorption rates entered for each drink and both rates of elimination.



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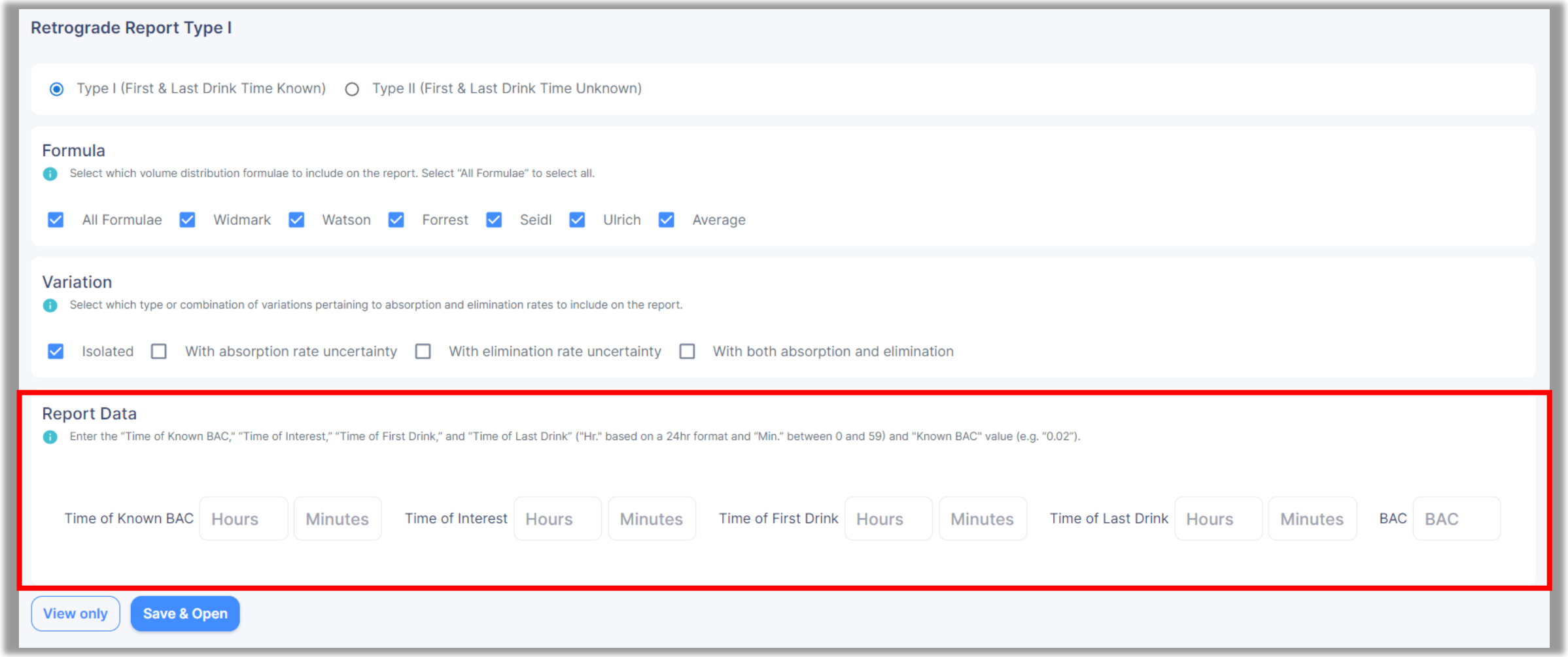
Enter the “Time of Known BAC,” “Time of Interest,” “Time of First Drink,” “Time of Last Drink”, and Known “BAC” value. ("Hr." based on a 24hr format and “Min.” between 0 and 59). BAC value is g/dl (e.g. “0.02”).



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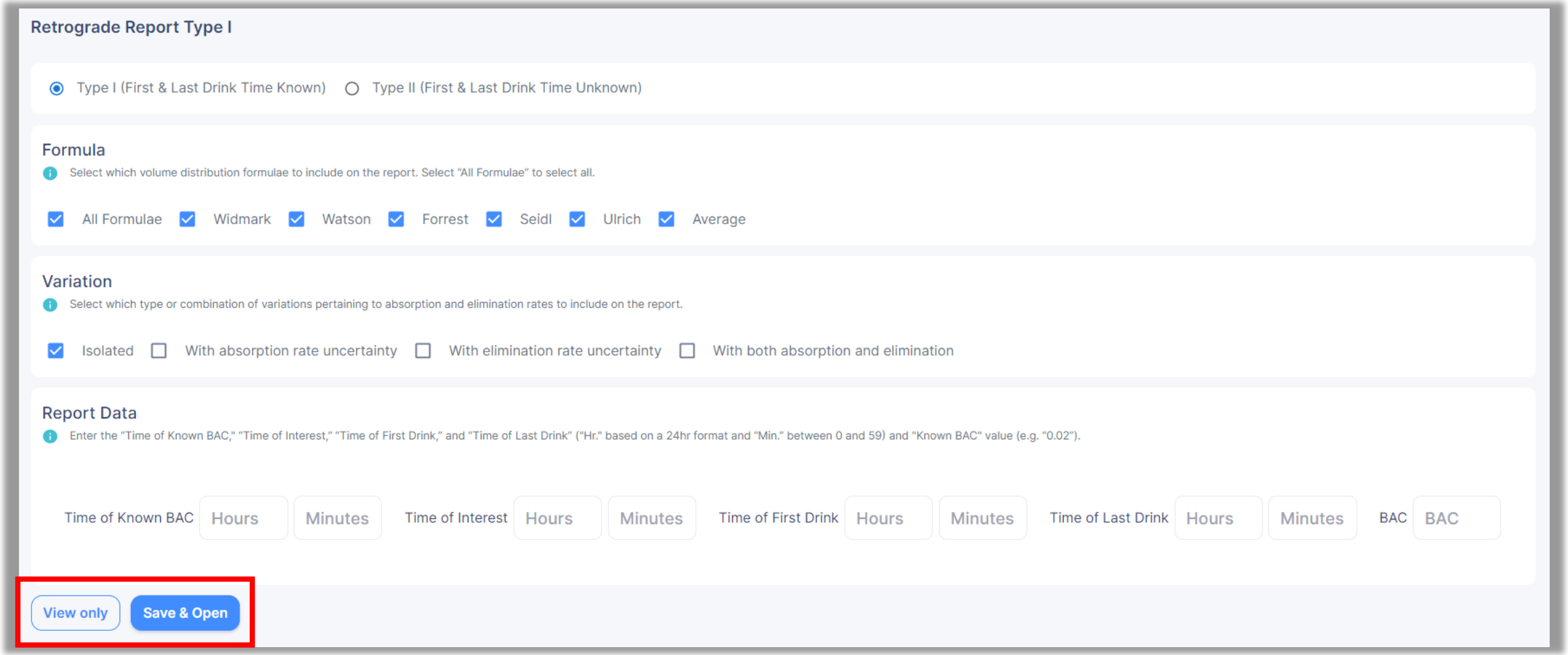
Once all required fields are entered, click “Save & Open” (to save a copy of the report in the Case file) or “View Only” (to view the report in a new browser window without saving to the Case file).



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How to Generate . . .

Retrograde Alcohol Extrapolation Reports (Type II)

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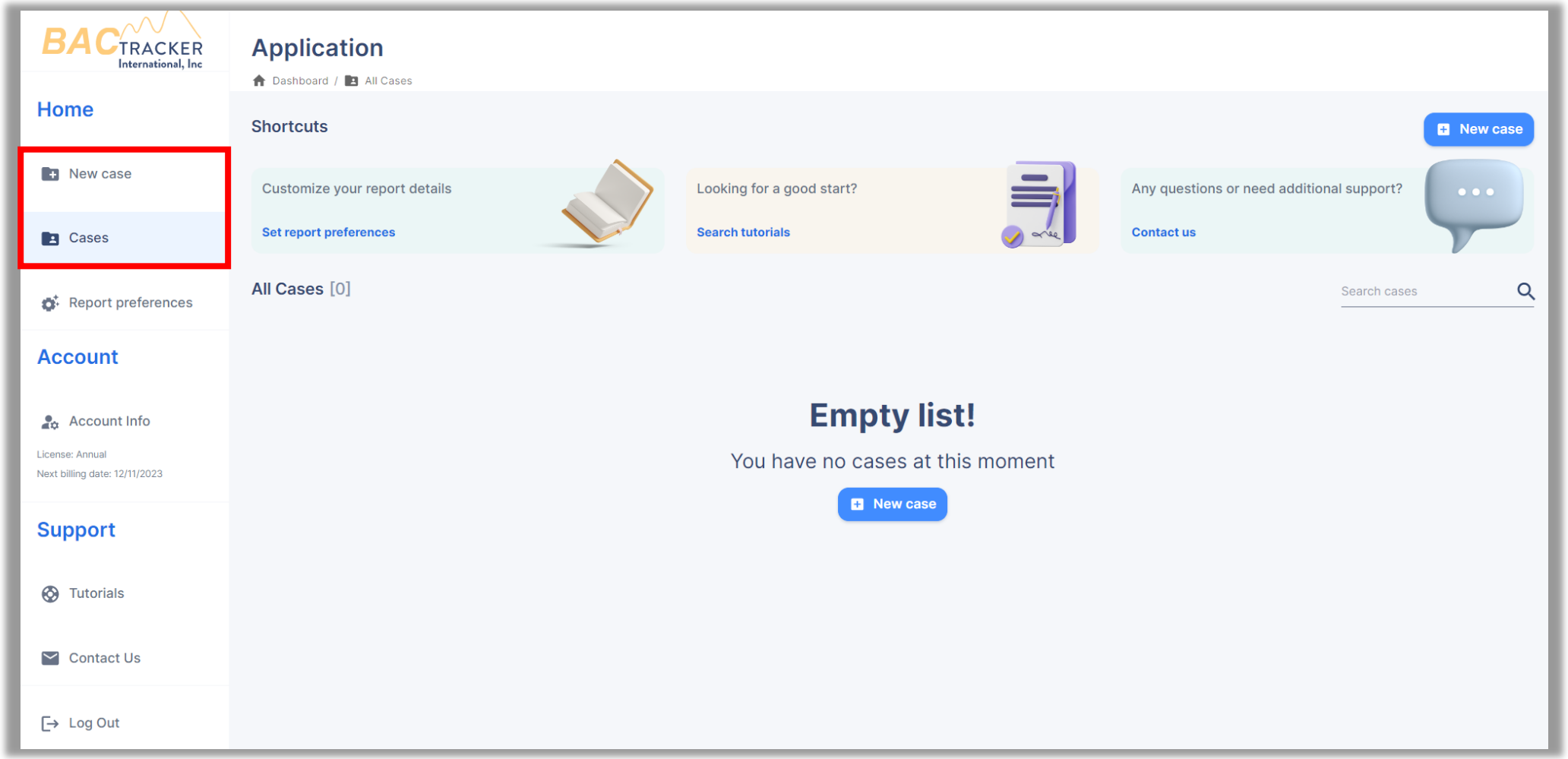
From the Dashboard, create a new case or open an existing case.



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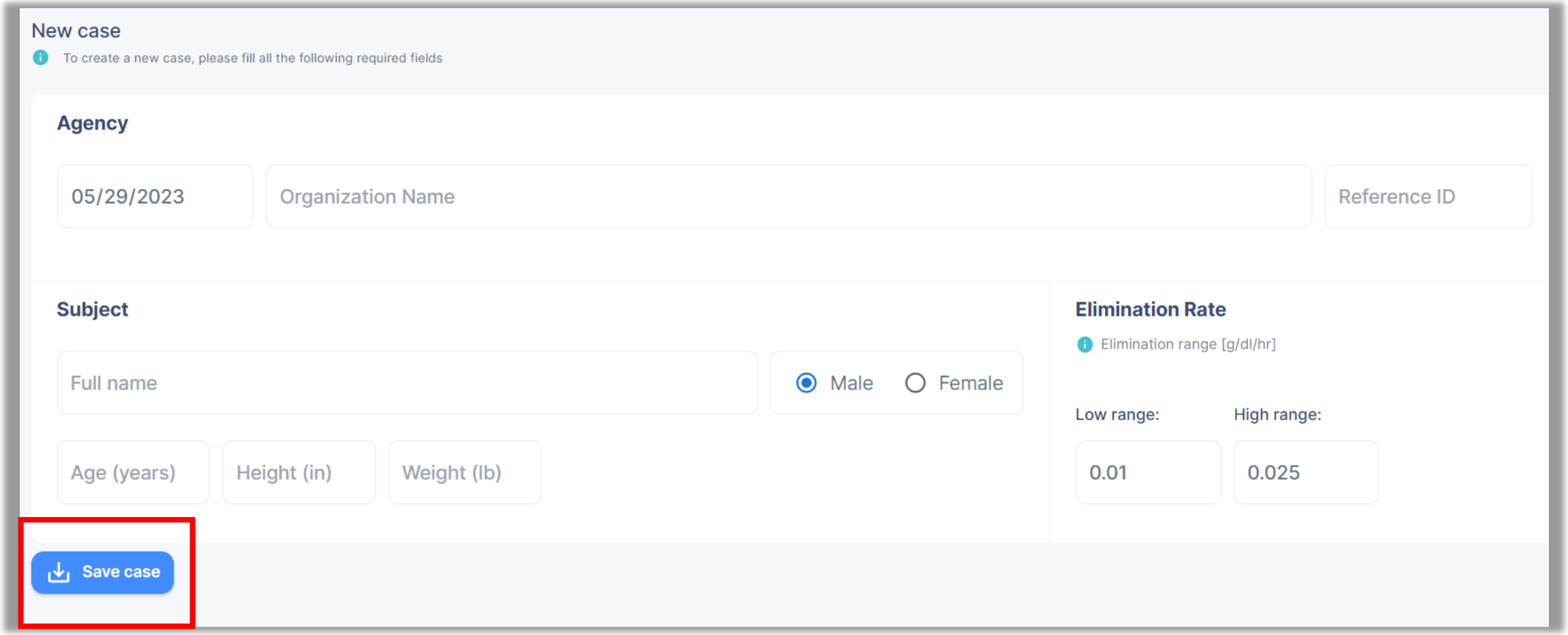
Ensure all required information is entered for the Case. When finished, click “Save case” to select which type of Alcohol Extrapolation Report to generate.



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Select “Retrograde Report”

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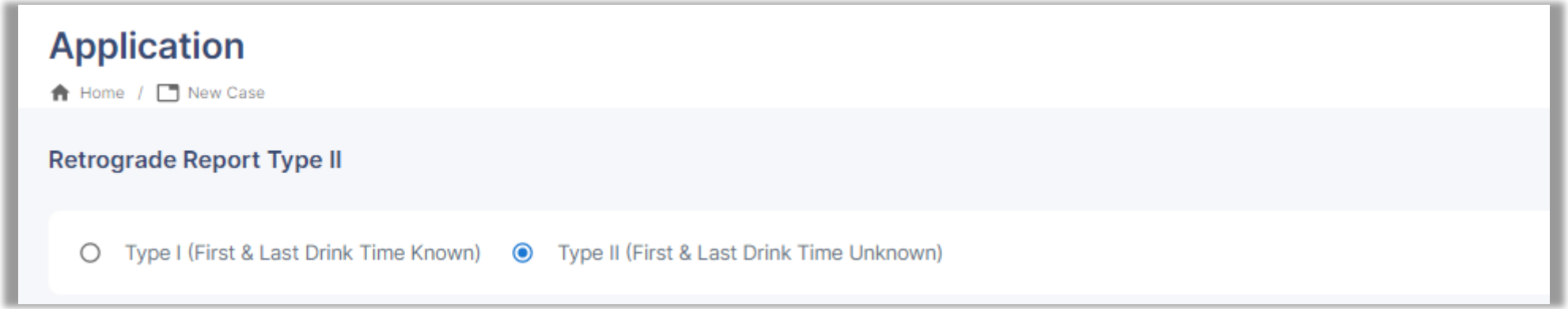
Select which Type of Retrograde Report to generate (Type I or Type II). If the Time of First Drink and Time of Last Drink are known, generate a Type I Report. If the Time of First Drink and Time of Last Drink are not known, generate a Type II Report. Once selected, the relevant data entry fields will appear below the Type Selection section of the screen.



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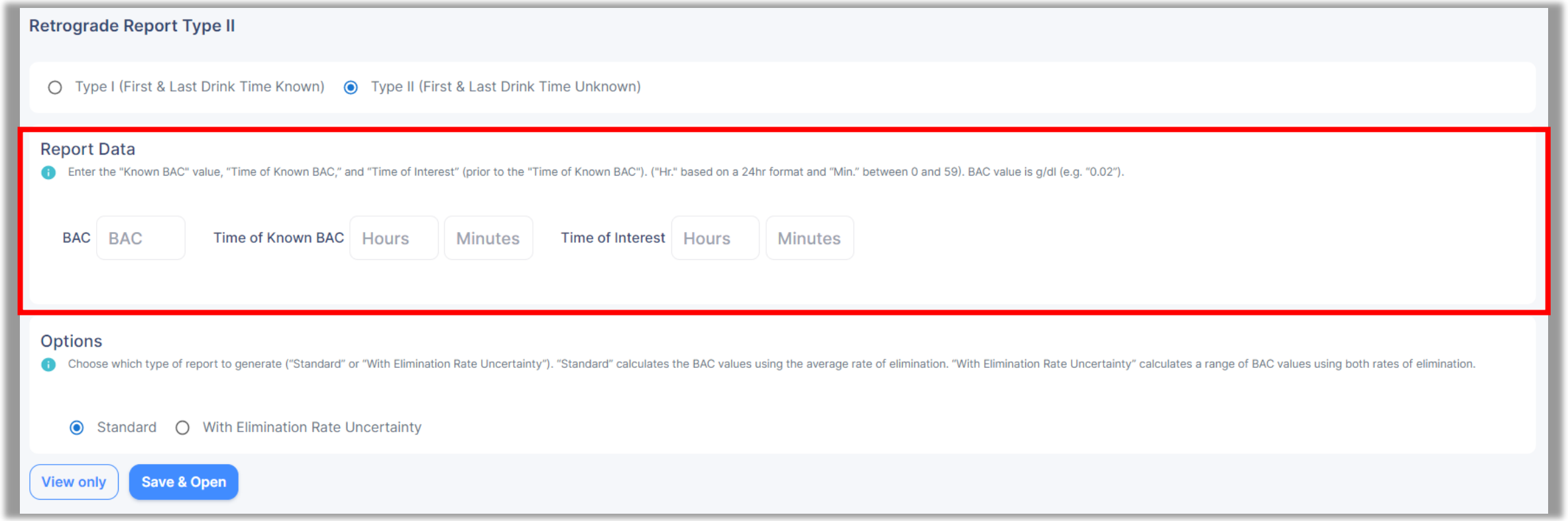
Enter the Known “BAC” value, “Time of Known BAC,” and “Time of Interest” (prior to the Time of Known BAC). ("Hr." based on a 24hr format and “Min.” between 0 and 59) BAC value is g/dl (e.g. “0.02”).



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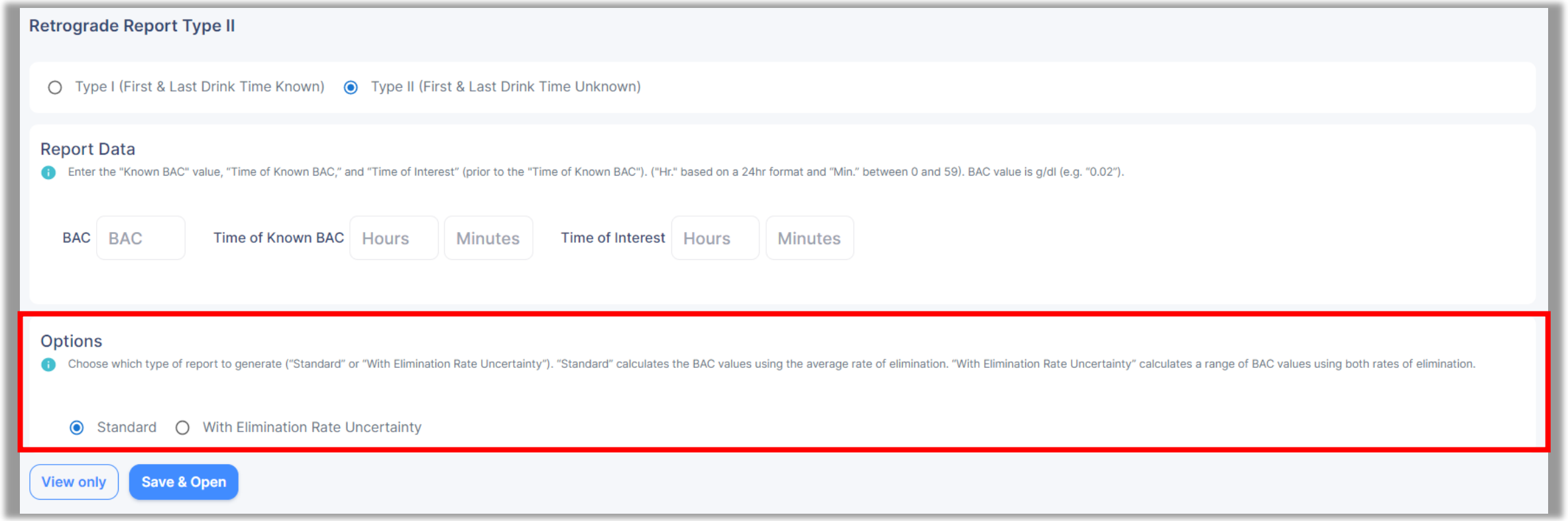
Choose which type of report to generate ("Isolated" or "With Elimination Rate Uncertainty"). "Isolated" calculates the BAC values using the average rate of elimination. "With Elimination Rate Uncertainty" calculates a range of BAC values using both rates of elimination.



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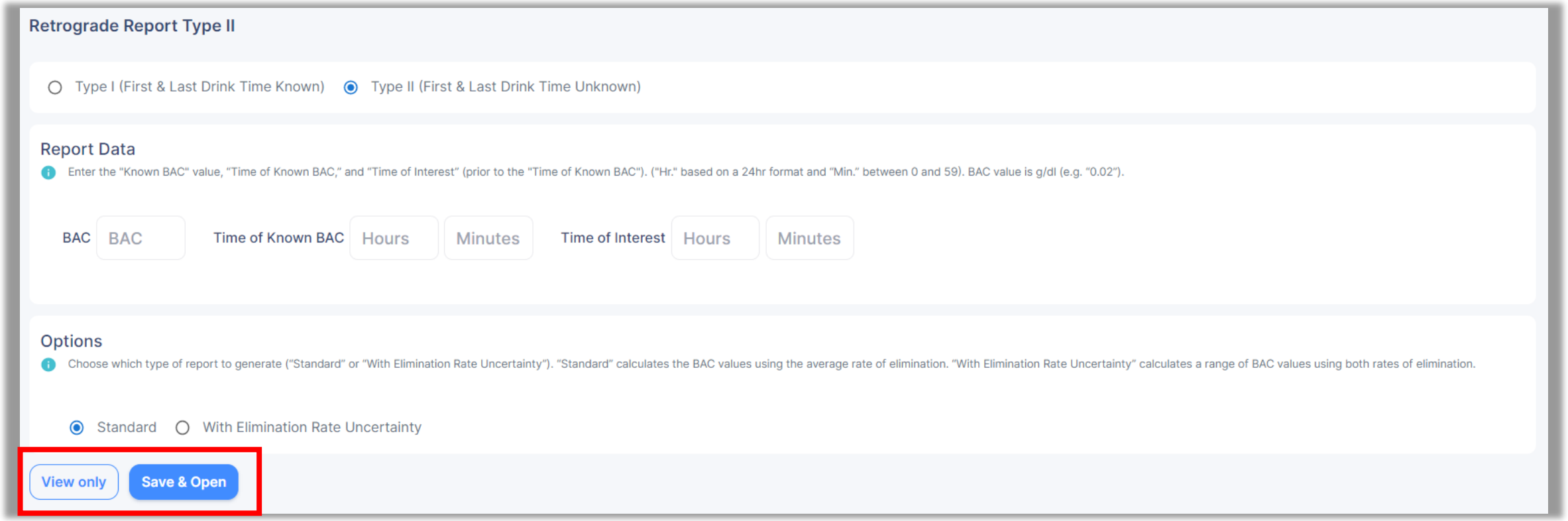
Once all required fields are entered, click “Save & Open” (to save a copy of the report in the Case file) or “View Only” (to view the report in a new browser window without saving to the Case file).



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How to Generate . . .

Alcohol Quantification Reports

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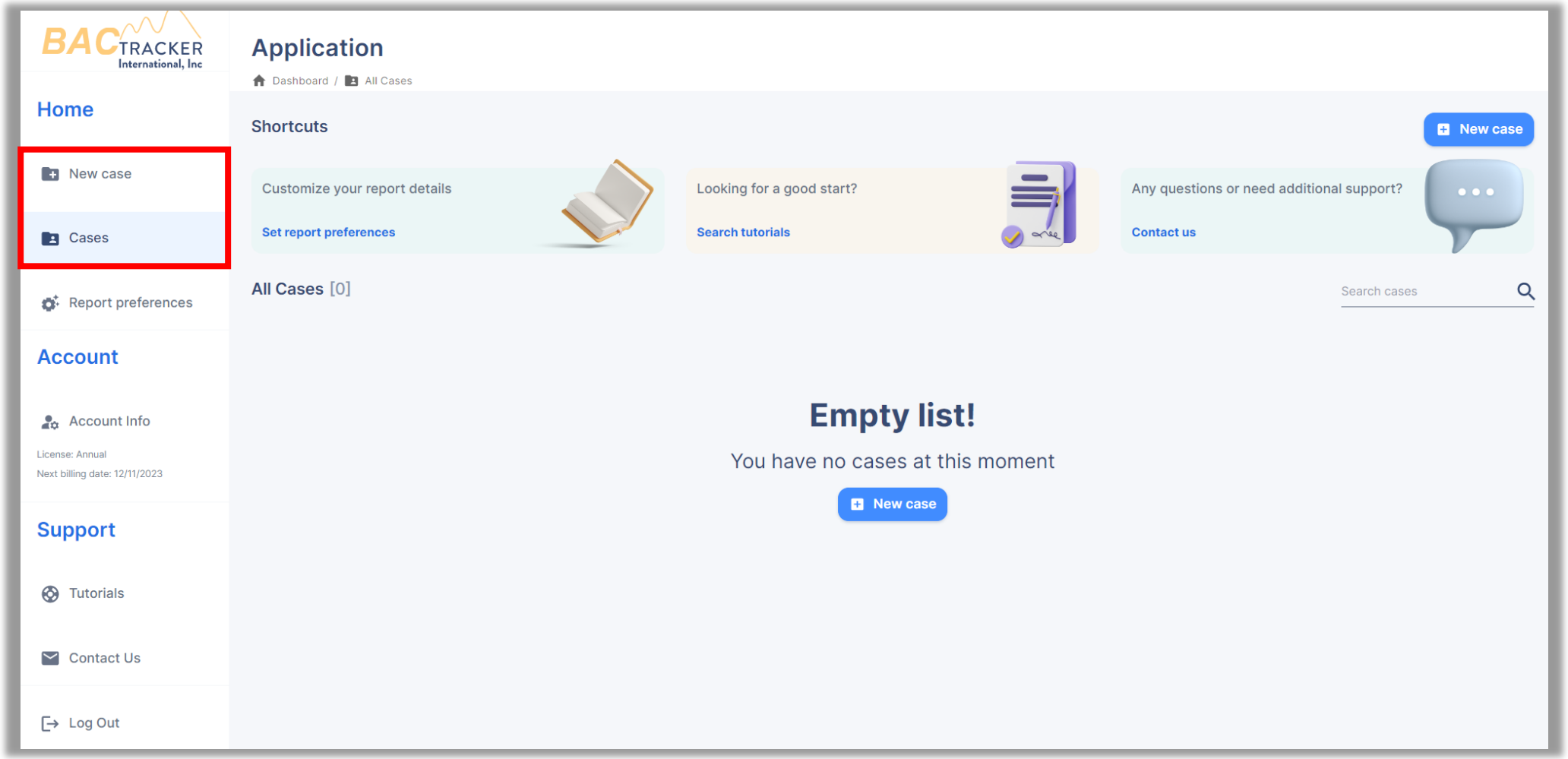
From the Dashboard, create a new case or open an existing case.



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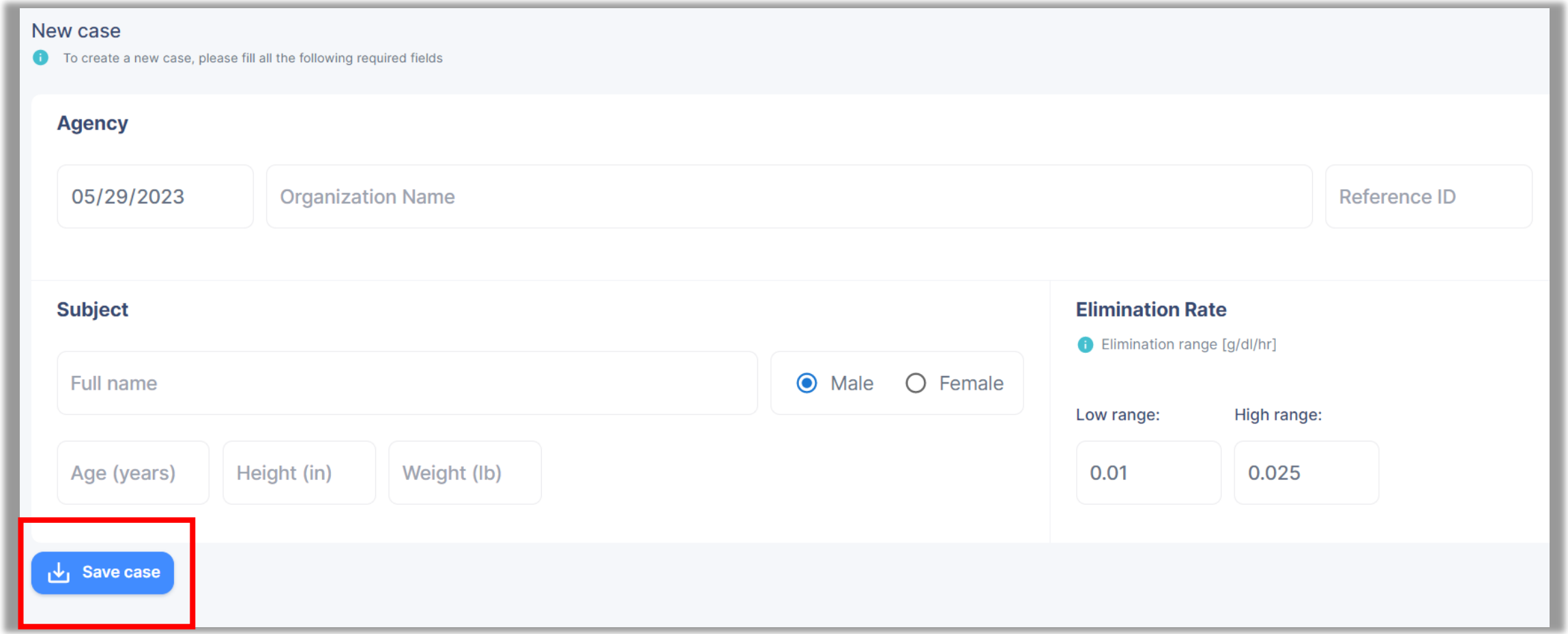
Ensure all required information is entered for the Case. When finished, click “Save case” to select which type of Alcohol Extrapolation Report to generate.



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Select “Quantification Report”

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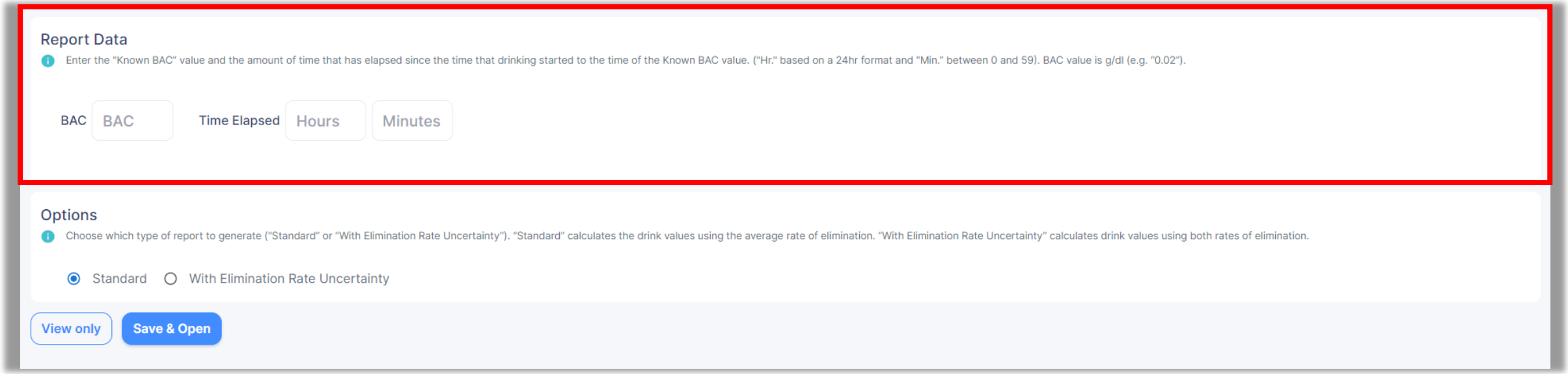
Enter the Known “BAC” value and the amount of time that has elapsed since the time that drinking started to the time of the Known BAC value. ("Hr." based on a 24hr format and “Min.” between 0 and 59). BAC value is g/dl (e.g. “0.02”).



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Choose which type of report to generate (“Standard” or “With Elimination Rate Uncertainty”). “Standard” calculates the BAC values using the average rate of elimination. “With Elimination Rate Uncertainty” calculates a drink values using both rates of elimination.

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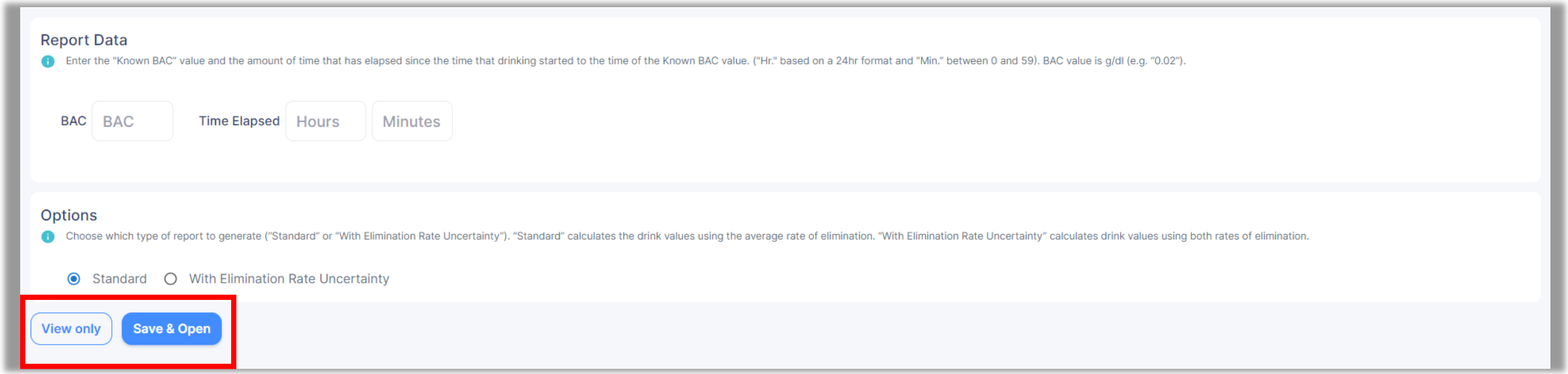
Once all required fields are entered, click “Save & Open” (to save a copy of the report in the Case file) or “View Only” (to view the report in a new browser window without saving to the Case file).



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