

Claims

1. A method for classifying at least one sample comprising:
selecting an analytical property measurement technique to apply to the at least one sample;
applying the analytical property measurement technique to the at least one sample;
automatically obtaining the results of the analytical property measurement technique applied to the at least one sample;
automatically determining if the at least one sample can be classified based on the obtained results, wherein only if the at least one sample cannot be classified, automatically selecting and applying another analytical property measurement technique;
classifying the at least one sample based on the automatically selected analytical property measurement techniques;
wherein the step of selecting an analytical property measurement technique comprises selecting from a group consisting of optical spectroscopy, fluid-mechanic, electrochemical, thermodynamic, and acoustic properties.
2. The method of claim 1, wherein the step of classifying the at least one sample includes classifying multiple samples sequentially.
3. The method of claim 1, wherein the step of classifying the at least one sample includes classifying multiple samples simultaneously.
4. The method of claim 1, wherein the step of classifying the at least one sample includes determining the drug, diluent and concentration.
5. A system for classifying at least one sample comprising:
a housing for containing the at least one sample;
at least one sensing element to measure at least one physical parameter of the at least one sample; and
a processor configured to receive and analyze the at least one physical parameter, and automatically determine if the at least one sample can be classified based on the at least one physical parameter analysis, wherein only if the at least one sample cannot be classified, the processor is configured to automatically select and apply another analytical technique to receive and analyze an additional physical parameter, until the at least one sample is classified.
6. The system of claim 5, further comprising a second sensing element to measure another physical parameter of the sample.

7. The system of claim 5, wherein the housing for containing the at least one sample comprises an optically neutral container.

8. The system of claim 5, wherein the housing for containing the at least one sample comprises an optically clean flow cells or tubes.