CLAIMS

What is claimed is:

1. A dispensing nozzle comprising:

a nozzle manifold comprising at least a first orifice and corresponding conduit configured to receive one or more diluents, at least a second orifice and corresponding conduit configured to receive one or more macro-ingredient sweeteners, and a plurality of micro-ingredient orifices and corresponding conduits configured to receive a plurality of micro-ingredients;

the plurality of micro-ingredient orifices and corresponding conduits forming a micro-ingredient conduit system, wherein a center portion of the nozzle manifold includes the micro-ingredient conduit system,

wherein the nozzle manifold is further comprised of a sweetener channel configured to receive the one or more macro-ingredient sweeteners, the sweetener channel containing a plurality of holes in a bottom surface thereof allowing the one or more macro-ingredient sweeteners to pass through;

wherein the nozzle manifold is further comprised of a diluent baffle configured to receive the one or more diluents and the one or more macro-ingredient sweeteners and allow the received diluent and macro-ingredient sweetener to mix, and

wherein the dispensing mode further comprises:

a nozzle housing, wherein a bottom portion of the nozzle housing constitutes a funnel having a nozzle exit;

the funnel configured to receive the one or more diluents and the one or more macro-ingredient sweeteners and allow the received diluent and macro-ingredient sweetener to flow down the funnel;

the funnel further configured to allow the received diluent, the received macro-ingredient sweetener, and the received micro-ingredients to mix about the nozzle exit.

2. The dispensing nozzle of claim 1, wherein the first orifice is configured to receive at least carbonated water;

wherein the second orifice is configured to receive at least a nutritive sweetener.

3. The dispensing nozzle of claim 1, wherein the sweetener channel contains a valve membrane configured to prevent flow of the one or more macro-ingredient sweeteners unless a threshold pressure level is reached.

4. The dispensing nozzle of any of the preceding claim, wherein the second orifice and corresponding conduit contains a stop valve configured to control the flow of macro-ingredient sweetener.

5. The dispensing nozzle of any of the preceding claim, wherein the dispensing nozzle is modular.

6. The dispensing nozzle of any of the preceding claim, wherein the dispensing nozzle is further configured to receive a diluent to wash away one or more residual ingredients from the funnel.

7. A beverage dispensing system, comprising:

a user interface configured to receive a beverage selection;

a controller in communication with the user interface;

a dispensing nozzle as claimed in any preceding claim;

a plurality of beverage ingredients in communication with the nozzle; and

one or more pumps in communication with the controller, wherein the one or more pumps regulate the flow of the plurality of beverage ingredients.

8. The beverage dispensing system of claim 7, further comprising an ice dispenser externally disposed to the dispensing nozzle.

9. The beverage dispensing system of claim 8, wherein the ice dispenser and the dispensing nozzle are configured to dispense simultaneously into a beverage container.