

Modern human diet ~~includes~~ consists of a wide variety of foods ~~materials~~ from ~~various~~ different sources. ~~The~~ ~~a~~ ~~Active~~ ~~ly~~ ~~promotion~~ ~~promoting~~ of fruits and vegetables as important ~~part~~ ~~elements~~ of a healthy diet has ~~lead to~~ ~~caused~~ a significant increase in fresh produce ~~consumption worldwide~~ ~~being eaten all over the world~~. ~~However~~, ~~Recent~~ ~~recent~~ outbreaks of foodborne illnesses ~~related to~~ ~~associated with~~ ~~consuming~~ fresh produce ~~consumption~~ ~~has~~ ~~have~~ indicated that these ~~heighted~~ ~~concerns that these~~ foods ~~maybe~~ ~~are~~ an increasing source of illness. The ~~minimal~~ ~~minimum~~ processing required for fresh and freshly cut produce ~~which~~ ~~omits~~ ~~does not include~~ any effective microbial elimination step ~~and~~ ~~results in~~ ~~retains~~ ~~microorganisms in~~ food products ~~naturally carrying microorganisms,~~ ~~;~~ some of ~~which~~ ~~these~~ ~~microorganisms~~ ~~may~~ ~~may~~ ~~be~~ ~~potentially~~ ~~hazardous to the human health~~ ~~cause~~ ~~health~~ ~~hazards~~. ~~Some of the~~ ~~Certain~~ foodborne pathogens ~~such as~~ ~~like~~ *Salmonella* spp., *Escherichia coli*, *Citrobacter* spp., and *Enterobacter* spp. ~~produce~~ ~~curli,~~ ~~which~~ ~~are~~ ~~proteinaceous~~ ~~components~~ ~~of a complex extracellular matrix~~ ~~which~~ ~~that~~ help in the initial ~~steps~~ ~~stages~~ of biofilm formation and enhances ~~the resistance of~~ ~~cell~~ ~~resistance~~ ~~cells in~~ ~~biofilms~~ ~~for~~ ~~to~~ sanitizers and disinfectants. Curli are ~~proteinaceous components of a complex extracellular matrix and are~~ ~~produced by many~~ ~~Enterobacteriaceae~~. They are thin, coiled fibers ~~expressed~~ ~~thin,~~ ~~coiled~~ ~~fibers~~ ~~expressed~~ ~~at on the cell~~ ~~surface~~ ~~of many~~ ~~Enterobacteriaceae~~ ~~and~~ ~~of~~ ~~cells~~ ~~that~~ ~~bind~~ several matrix and plasma proteins ~~such as~~ ~~fibronectin,~~ ~~laminin,~~ ~~and~~ ~~plasminogen~~ ~~and~~ ~~as~~ ~~well~~ ~~as~~ ~~azo~~ ~~dyes~~ ~~such~~ ~~as~~ ~~like~~ Congo red. Raw vegetables, ~~and~~ ~~fruits~~ ~~and~~ ~~as~~ ~~well~~ ~~as~~ unpasteurized juices contain ~~a number of~~ ~~several~~ ~~curli~~ ~~curli,~~ producing foodborne pathogens, which are associated with ~~food~~ ~~foodborne~~ ~~related~~ diseases. ~~These~~ ~~se~~ ~~curli~~ ~~producers~~ ~~pathogens~~ form biofilms on fresh produce as well as on food contact surfaces, ~~resulting in~~ ~~and~~ ~~result~~ ~~in~~ ~~cross~~ ~~cross-~~ ~~contamination~~ ~~of~~ ~~produce~~. ~~Curli~~ ~~Curli-~~ ~~producing~~ ~~bacterial~~ ~~strains~~ are characterized by their ~~ability to bind~~ Congo red ~~binding~~ ~~ability,~~ ~~which~~ ~~provides~~ ~~ing~~ a simple screening method ~~for~~ ~~in vitro~~ curli production. The Congo red binding technique ~~has~~ ~~uses~~ a qualitative as well

**Comment [A1]:** Terms such as *additionally*, *furthermore*, *moreover*, *therefore*, and *however* are used as transition words to help in a better flow of ideas.

**Comment [A2]:** A nonrestrictive clause is a clause that adds additional or nonessential information to a sentence. Such clauses are usually separated by commas. Here, as the clause following the term "curli" provides additional information about curli, it is separated by a comma.

**Comment [A3]:** The information in this section has been re-arranged for a better flow and so that the structure and functions of *curli* can be understood more clearly.

**Comment [A4]:** In academic writing, information should be presented with accuracy and conciseness. In the given context, "a number of" has been replaced with a more concise term, "several." Other such examples include, replacement of "carried out" with "performed/conducted" or that of "looked into" with "investigated/examined."

**Comment [A5]:** A compound modifier contains 2 or more words, which act together as one adjective and are connected by hyphens. Hyphens are used with these terms so that their meaning is understood clearly.

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as a quantitative approach. Curli-producing microorganisms producers were isolated from fresh produce and unpasteurized carrot juice using modified Luria-Bertani (LB) medium. Curli-These producing microorganisms formed dry, red, rough colonies on modified LB medium, while nonproducers formed smooth, white colonies. The parameters that control curli production, such as temperature and osmolarity, were evaluated using this Congo red binding technique.

**Comment [A6]:** Proper nouns should begin with uppercase letters. Here, as Luria and Bertani are proper nouns, the casing has been revised.

**Comment [A7]:** Commas are used to separate adjectives that separately modify the noun. These types of adjectives are called coordinate adjectives. You can change the order of coordinate adjectives without it sounding awkward. For instance, in the phrase *huge, restless crowd*, the adjectives *huge* and *restless* modify the noun separately; hence, a comma can separate the two adjectives.

SAMPLE