NQAC
Nestlé Quality Assurance Center

Technical Datasheet

Analysis Name:	DNA Extraction for PCR Assays
Method Number	LI-00.385
Scope of Application:	Description of in-house methods for plant and animal DNA extraction, applicable to raw materials, derivatives and finished products; isolated DNA is subsequently suitable for plant, including GMO, and animal species identification.
Description:	DNA extraction methods to purify DNA from plant raw materials and processed food samples. Derived from CTAB-DNA extraction methods and combine the convenience of spin-column technology with the selective binding properties of silica gel-membranes. DNA adsorbs to the silica-membrane in the presence of high salt concentration while contaminants pass through the column. Impurities are then washed away and the purified DNA is eluted. Concentration of extracted DNA is then estimated by UV spectrophotometry.
Sample Weight Required:	50 g
Special information:	Industrial processes (e.g. heat, acidic or alkaline hydrolysis) can significantly degrade DNA and reduce method performance on derivatives and culinary products (e.g. lecithin, starch, crude oil ...). It is unlikely to further detect residual DNA in highly purified derivatives (e.g. chemical, flavour, refined oil ...).