pesign for sustainability (pfs) scorecard

With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.



Extract-N-Amp Cellular RNA Lysis Buffer

The Extract-N-Amp™ Cellular RNA Lysis buffer is a single working solution that allows for rapid, room-temperature extraction and



Impact areas		Results	
6	MATERIALS	Reduction in the mass of consumables required for the workflow by 88%. Eliminates the use of Chloroform, a hazardous substance	
*	SUPPLIERS & MANUFACTURING	Tier 1 suppliers participate in Together for Sustainability (TfS) as a commitment to improving sustainability throughout the value chain.	
(7)	PACKAGING	Considerable reduction of the mass of primary packaging required for the workflow but added cold shipping requirement.	
CK3	ENERGY & EMISSIONS	New product workflow eliminates the need for a refrigerated microcentrifuge consuming 0.468 kWh per 100 reactions. However, the new product requires a refrigerated storage, adding 0.007 kWh per year of storage (assuming using a 600L freezer consuming 0.8 kWh per day).	
	WATER	No change compared to baseline product in consideration of our DfS criteria.	
*	USABILITY & INNOVATION	Simplified workflow and elimination of chemical hazards (Chloroform) offers improved customer experience. Cold storage conditions increase shelf-life.	
	CIRCULAR ECONOMY	Reduction in the mass of waste generated throughout the workflow by 89%. Eliminates hazardous waste generation by solvent elimination.	

Baseline product: Organic Extraction with Silica Spin Column Purification