Genomic DNA Preps: Comparison of JETFLEX with competitors

Specification	JETFLEX	Puregene (Gentra)	Promega „Wizard“
Technology	**Solution-based procedure**	Solution-based procedure	Solution-based procedure
Sample source	**Blood & Tissue samples, Cell Cultures, Biological Fluids, Bacteria and more**	Main focus on blood samples	Main focus on blood samples
Handling of product	**Very convenient, fast and robust procedure, reproducible results**	Quite convenient	Long procedure
Time needed per preparation	**15 - 30 min**	25 - 60 min	60 min
Max. size of DNA	**>100 kb**	>50 kb	>50 kb
DNA Yield Blood:	**5 – 15 µg from 300 µl whole blood**	4 – 7 µg from 300 µl whole blood	5 – 10 µg from 300 µl whole blood
DNA Yield Tissue:	**2 – 20 µg / mg tissue**	0.5 – 10 µg / mg tissue	1 – 5 µg / mg tissue
DNA Yield Cell Culture:	**10 – 15 µg per 10^6 cells**	2.5 – 10 µg per 10^6 cells	5 – 10 µg per 10^6 cells
Preparation of RNA-free DNA	**RNase included**	RNase included	RNase included
Enhanced protein digestion	**Proteinase K included**	---	---
Protein precipitation	**‚Pellet Compactor‘ resolves all potential problems with unstable protein pellets**	Protein pellets often unstable and difficult to handle	Protein pellets often unstable and difficult to handle
DNA Quality	**Highly pure**	pure	pure
DNA stability	**Highly stable DNA from all sources**	Stable from blood, often degraded from other samples (e.g. tissue)	Stable from blood, often degraded from other samples (e.g. tissue)

PCR	**yes**	yes	variable
Blotting & Hybridization	**yes**	yes	yes
Restriction	**yes**	yes	variable