

選択ガイド					選択ガイド (continued)				
用途	製品名 (コード番号)	ページ	主なアプリケーション	精製スケール	回収率・回収量	所要時間	フォーマット	利点	コメント
Total RNAの抽出					Total RNAの抽出 (左ページつづき)				
Isolation of total RNA from cells or tissue	RNAspin Mini (25-0500-70)	11-14	RT-PCR、ノーザン、qRT-PCR	Up to 30 mg tissue or 5 × 10 ⁶ cells	5-100 µg	< 30 min/6 preps	Spin column		Not for use with whole blood or plant
Isolation of total RNA from cells or tissue	RNAspin Midi (25-0500-73)	11-14	RT-PCR、ノーザン、qRT-PCR	Up to 200 mg or 5 × 10 ⁷ cells	70-700 µg	< 80 min/4 preps	Tube column (15 ml)		Not for use with whole blood or plant
Isolation of total RNA from cells or tissue	RNAspin 96 (25-0500-75)	11-14	RT-PCR、ノーザン、qRT-PCR	Up to 30 mg or 1 × 10 ⁷ cells	5-100 µg	< 70 min/96 preps	96 wells plate		Not for use with whole blood or plant
Isolation of total RNA from cells or tissue	Cesium Trifluoroacetate (17-0847-02)	11-16	ノーザン、mRNA 精製、 <i>in vitro</i> Translation	10 g tissue/100 ml	Varies	Overnight	Ultracentrifuge	強力なカオトロピック塩でリボヌクレアーゼを阻害	Can be used to separate RNA and DNA
mRNAの精製					mRNAの精製 (左ページつづき)				
Purification of mRNA from cells or tissue	QuickPrep <i>Micro</i> mRNA Purification Kit (27-9255-01)	11-17	RT-PCR、ノーザン、cDNA 合成、 <i>in vitro</i> Translation	0.1 g tissue or 1 × 10 ⁷ cells	Up to 6 µg/100 mg tissue	15 minutes/round	Spin (batch); microfuge	迅速性、純度	For isolation of mRNA directly from cells and tissue; not ideal for low-copy-number messages
Purification of mRNA from cells or tissue	QuickPrep mRNA Purification Kit (27-9254-01)	11-17	ノーザン、cDNA 合成、 <i>in vitro</i> Translation、RT-PCR	0.5 g tissue or 5 × 10 ⁷ cells	Up to 25 µg (90% purity)	< 1 hour	Spin column; tabletop centrifuge	迅速性、個別包装、純度	
Purification of mRNA from cells or tissue	mRNA Purification Kit (27-9258-01, -02)	11-18	cDNA 合成、ノーザン、 <i>in vitro</i> Translation、RT-PCR	25 mg to 1 g cells or tissue	20 µg/600 µg total RNA (1 round)	35 ~ 45 minutes/round	Spin column; tabletop centrifuge	個別包装	
Purification of mRNA from cells or tissue	Oligo (dT)-Cellulose Type 7 (27-5543-02)	11-19	cDNA 合成、ノーザン、 <i>in vitro</i> Translation、RT-PCR	Up to 4 mg poly (A) /1 g of cellulose	Varies	Varies	Spin; gravity; batch	経済性、scalable	
PCR産物の精製・オリゴヌクレオチドの脱塩・DNAフラグメントの精製・バッファー交換					PCR産物の精製・オリゴヌクレオチドの脱塩・DNAフラグメントの精製・バッファー交換 (左ページつづき)				
Desalting of oligonucleotides ≥ 10 bases	MicroSpin G-25 Columns (27-5325-01)	11-20	PCR、シークエンシング、ラベリング	100 ~ 150 µl of deprotection solution	85 ~ 90% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性、プレバック	
Desalting of oligonucleotides ≥ 10 bases	NAP Columns (17-0852, 17-0853, 17-0854; all - 01, 02)	11-22	PCR、シークエンシング、ラベリング	Concentration ≤ 1 mg/ml; 0.5 ~ 2.5 ml	90% recovery	< 15 minutes	Gravity	0.5~2.5 ml までのサンプル量に適合	
Desalting of oligonucleotides ≥ 10 bases	Sephadex G-25 DNA Grade SF (17-0572-02)	11-21	PCR、シークエンシング、ラベリング	Varies	90% recovery	Varies	Spin or gravity	経済性	
オリゴヌクレオチドの脱塩・バッファー交換					オリゴヌクレオチドの脱塩・バッファー交換 (左ページつづき)				
Removal of unincorporated label from end-labelled oligonucleotides ≥ 10 bases	MicroSpin G-25 Columns (27-5325-01)	11-20	ハイブリダイゼーション	10 ~ 50 µl	85 ~ 90% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性	Prepacked and pre-equilibrated
未反応ダイターミネーターの除去					未反応ダイターミネーターの除去 (左ページつづき)				
Removal of excess DyeDeoxy terminators from cycle sequencing reactions	AutoSeq G-50 (27-5340-01, -02, -03)	13-8	未反応ダイターミネーターの除去	12 ~ 25 µl	80% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性	Prepacked and pre-equilibrated
PCR産物精製およびDNAフラグメントの精製					PCR産物精製およびDNAフラグメントの精製 (左ページつづき)				
Removal of excess primers (≤ 32 bases) from PCR products at least 200 bp in length	MicroSpin S-400 HR Columns (27-5140-01)	11-23	PCR、クローニング、シークエンシング	25 ~ 50 µl prior to subsequent PCR or cloning; 51 ~ 100 µl prior to sequencing	50 ~ 70% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性	Prepacked and pre-equilibrated
Removal of excess primers (≤ 20 bases) from PCR products at least 100 bp in length	MicroSpin S-300 HR Columns (27-5130-01)	11-23	シークエンシング	25 ~ 50 µl	60 ~ 80% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性	Prepacked and pre-equilibrated
Buffer exchange	MicroSpin G-25 Columns (27-5325-01)	11-20	制限酵素処理	10 ~ 100 µl	90% recovery	4 minutes/2 columns	Spin column; microfuge; tabletop centrifuge	迅速性	Prepacked and pre-equilibrated
Purification and concentration of PCR products/DNA (50 bp ~ 10 kbp) from solution or from gel bands	illustra GFX PCR DNA and Gel Band Purification Kit (28-9034-70, -71)	11-24	シークエンシング、制限酵素処理、クローニング	100 µl reaction; 300 mg agarose per microfuge tube	最大 95% from solution; 60 ~ 80% from agarose	5 minutes from solution; 15 minutes from agarose	GFX spin column; microfuge; vacuum tabletop centrifuge	迅速性、純度	No glass slurry; elution in low-salt buffer; for agarose gel slices buffered in TBE or TAE