ENVIRCLOGIX

QualiPlate[™] Kit for LibertyLink[®] PAT/*pat*

Highlights:

- Test corn, cotton, canola or soybean
- High Sensitivity Protocol detects the PAT enzyme from the pat gene (PAT/pat) found in 0.5% T25 corn
- Rapid Protocol screens individual seeds or leaf samples for the presence of PAT/pat

Contents of Kit:

- 1 antibody-coated 96-well plate
- *PAT*/pat *Enzyme Conjugate*
- 1 packet of Buffer Salts
- Substrate
- Stop Solution

Catalog Number AP 014

Intended Use

The QualiPlate Kit for LibertyLink PAT/*pat* is designed for the qualitative laboratory detection of phosphinothricin acetyl transferase enzyme (PAT) coded for by the *pat* gene in grain, leaf, or seed. Two assay protocols are presented. The High Sensitivity Protocol will detect the PAT enzyme from the *pat* gene (PAT/*pat*) found in 0.5% LibertyLink T25 corn, 40% Bt11(T14) corn, 20% HerculexTM I corn, 5% WideStrikeTM cotton, 0.5% T45 LibertyLink canola, and 1.0% LibertyLink soybean, and requires 2.5 hours to run. The Rapid Protocol (one hour total) is intended for use in screening individual seeds or leaf samples for the presence of PAT/*pat*.

NOTE: LibertyLink PAT from the *bar* gene, at concentrations present in StarLink[®] corn, LL25 cotton, or InVigor[™] canola, is not detected in either format.

How the Test Works

This QualiPlate Kit is a "sandwich" Enzyme-Linked ImmunoSorbent Assay (ELISA). In the test, **corn**, **cotton**, **canola**, **or soybean** sample extracts are added to test wells coated with antibodies raised against PAT from the *pat* gene. Any residues present in the sample extract bind to the antibodies, and are then detected by addition of enzyme (horseradish peroxidase)-labeled PAT/*pat* antibody.

After a simple wash step, the results of the assay are visualized with a color development step; color development is proportional to PAT/*pat* concentration in the sample extract.

Lighter color = Lower concentration Darker color = Higher concentration

Materials not Provided

- distilled or deionized water for preparing Wash/Extraction Buffer
- glass bottles or flask plus graduated cylinder with 1 liter capacity for preparation and storage of Wash/Extraction Buffer
- test or centrifuge tubes for extraction of grain
- Tissue Extraction Kit: snap-cap tubes and pestles for extraction of leaf samples (EnviroLogix Cat. No. ACC 002, 100/package)
- centrifuge capable of 5000 x g
- disposable tip, adjustable air-displacement pipettes which will measure 50 and 100 microliters (μL)
- marking pen (indelible)
- tape or Parafilm®
- timer
- microtiter ELISA plate reader
- wash bottle, or microtiter plate or strip washer
- multi-channel pipette that will measure 50 and 100 µL
- racked dilution tubes for loading samples into the plate with a multi-channel pipette, or the equivalent
- orbital plate shaker (optional)



Prepare Wash/Extraction Buffer

Preparation of Solutions

Wash/Extraction Buffer:

Add the contents of the packet of **Buffer Salts** to 1 liter of distilled or deionized water and stir to dissolve. Store refrigerated when not in use; warm to room temperature prior to assay. If more extraction buffer is needed, order item # P-3563 from Sigma Chemical Co. (St. Louis, MO), or prepare the equivalent.

Choose the Assay Protocol

Choose the assay protocol (High Sensitivity or Rapid) that best suits the samples to be tested according to the table below. A "yes" in a column indicates that the indicated trait can be reliably detected in the assay protocol named. PAT/pat protein is expressed at levels too low to be reliably detected in the crops/tissues with a "no" statement.

Limits of detection (LOD) stated for bulk seed are in units of % by weight of PAT/pat-expressing seed in a bulk seed sample.

				Bulk ground seed
	Event or	Leaf	Single Seed	High Sensitivity
Crop	Tradename	Rapid Protocol	Rapid Protocol	Protocol
Corn	LibertyLink T25	Yes	Yes	0.5% LOD
Corn	Herculex I	Yes	No	20% LOD
Corn	Bt11/T14	No	No	40% LOD
Cotton	WideStrike	No	No	5% LOD
Canola	LibertyLink T45	Yes	Yes	0.5% LOD
Soybean	LibertyLink	Yes	Yes	1.0% LOD

Sample Preparation

Note: PAT/*pat* protein is not stable in solution. Extraction should be performed in 30 minutes or less. Do not extract overnight.

High Sensitivity Protocol for Ground Grain/Seed

Corn:

This protocol requires that a small sample be analyzed. It is essential that this sample be well mixed and representative of the larger bulk. The test will detect 0.5% T25, 40% Bt11, or 20% Herculex I corn containing PAT/*pat*.

Note: Thorough mixing of the bulk grain sample and determination of an appropriate sampling plan are critical to the results of this testing, and are the responsibility of the user of this test kit. The USDA/GIPSA has prepared several guidance documents to address the issues involved in obtaining representative grain samples from static lots - such as trucks, barges, and railcars - and for taking samples from grain streams. Sampling plans should be chosen that best meet the needs of both the buyer and seller in terms of acceptable risks. Increasing the number of kernels in the sample and taking multiple samples will increase the likelihood of obtaining representative samples, and maximize the probability of detecting any contamination in the grain lot. For further information on USDA/GIPSA guidelines for obtaining representative samples and assessing detection probabilities for biotech grain, see the websites listed on at the left.

It is the responsibility of the user to ensure proper sampling and thorough mixing prior to analysis. Once representative samples have been obtained from the truck or container, they can be reduced in size using a splitter and uniformly ground and mixed. **The finer the grind, the faster and more efficient the extraction.**

- 1. Weigh 5 grams of ground corn sample into a 30+ mL capacity vial or tube.
- 2. Add 12.5 mL of Wash/Extraction Buffer to each 5 gram sample. For all other grain sample sizes, add Wash/Extraction Buffer at the rate of 2.5 mL per gram of grain. Cap and shake vigorously by hand or vortex for 20-30 seconds. Let stand at room temperature for 10 to 30 minutes to extract.
- 3. The extracted samples/controls must be clarified by centrifuging the extract at 5000 x g for 5 minutes. Insert a pipette tip below any floating lipid layer and above the pellet to remove the clarified sample.

Reference Websites:

www.gipsa.usda.gov/fgis/ handbook/ gihbk1_inspec.aspx USDA Grain Inspection Handbook, Book 1, Grain Sampling. This document provides a comprehensive overview of recommended sampling guidelines for static lots and grain streams. It reviews the various types of equipment and strategies that can be used to obtain a representative grain sample from different types of containers.

www.gipsa.usda.gov/fgis/ biotech/sample2.htm

Guidance document entitled Sampling for the Detection of Biotech Grains, which provides important statistical sampling considerations when testing for the presence of biotech grains. It covers the basis for making probability determinations in accepting lots based upon different assumptions with respect to sample size, number of samples, sample preparation, etc.

www.gipsa.usda.gov/fgis/ biotech/sample1.htm

Practical Application of Sampling for the Detection of Biotech Grains. This one-page application guide provides a table that gives sample sizes for selected lot concentrations and probability of rejecting the specified concentrations. It also provides a formula for making the calculation for other combinations.

www.gipsa.usda.gov/fgis/ biotech/samplingplan1.xls

This website provides a simple to use Sample Planner (29k Excel Spreadsheet). The planner allows you to enter different assumptions in terms of sample size, number of samples, acceptable quality level and to determine the probability of accepting lots with given concentration levels. It also plots the probabilities in graph form for easy interpretation. Specific data can be saved for documentation and future analyses.

Canola:

- 1. Weigh out 2 grams of canola sample into a mesh bag (EnviroLogix Cat No. ACC 021). Use a rubber mallet to crush the seeds thoroughly. After crushing, run your fingers over the bag to make sure there are NO uncrushed seeds remaining.
- 2. Add 6.0 mL of Wash/Extraction Buffer to each 2 gram sample. Thoroughly massage the extraction buffer around in the bag until the entire sample is wet. Allow the sample to extract for 10 to 30 minutes at room temperature.
- 3. Remix the sample using your finger on the outside of the bag until you feel the sample is homogenous. Tilt the bag slightly and use your fingers to pull the extraction buffer over to one corner. Pipette out a sample (the sample will contain particles).
- 4. The extracted samples must be clarified by centrifuging the extract at 5000 x g for 5 minutes. Insert a pipette tip below any floating lipid layer and above the pellet to remove the clarified sample.

Bulk Cottonseed:

- 1. Weigh out 5 grams ground cotton into 30+ mL capacity vial or tube.
- 2. Add 20 mL of Wash/Extraction Buffer to each 5 gram cotton sample. For all other cotton sample sizes, add Wash/Extraction Buffer at the rate of 4.0 mL per gram of cotton. Cap and shake vigorously by hand or vortex for 20-30 seconds. Let stand at room temperature for 10 to 30 minutes to extract.
- 3. The extracted samples <u>must be</u> clarified by centrifuging the extract at 5000 x g for 5 minutes. Insert a pipette tip below any floating lipid layer and above the pellet to remove the clarified sample.

Soybean Grain:

- 1. Weigh out 5 grams ground soybean into 30+ mL capacity vial or tube.
- 2. Add 25 mL of Wash/Extraction Buffer to each 5 gram soy sample. For all other soy sample sizes, add Wash/Extraction Buffer at the rate of 5.0 mL per gram of soy. Cap and shake vigorously by hand or vortex for 20-30 seconds. Let stand at room temperature for 10 to 30 minutes to extract.
- 3. The extracted samples <u>must be</u> clarified by centrifuging the extract at 5000 x g for 5 minutes. Insert a pipette tip below any floating lipid layer and above the pellet to remove the clarified sample.

Rapid Protocol for Screening Single Seeds or Leaf Punches:

Individual seeds:

- 1. Crush seeds: Corn kernels, cotton seeds, or single soybeans may be placed in a plastic bag and smashed with a hammer, then transferred to a tube; or a seed crusher/48-well plate combination may be used (Hypure #HSC-100, PerkinElmer, with Costar plate #3548, Corning Life Sciences, or equivalent). Check to be sure that all seeds have been crushed. Take extreme care not to cross-contaminate between seed samples. Canola seeds can be crushed by placing them into the wells of an uncoated 96-well plate and mashing each seed with the flat end of the pestle (EnviroLogix Cat No. ACC 002). Wipe the pestle clean on a damp paper towel between each seed.
- 2. Add 0.5 mL of Wash/Extraction Buffer to each crushed corn seed, 1 mL to each crushed cotton seed, 0.2 mL to each crushed canola seed, or 1 mL to each crushed soybean. Mix for at least 30 seconds, then allow particles to settle.



Allow all reagents to reach room temperature before beginning



Leaf punch



Extract sample



Centrifuge to clarify sample extract (High Sensitivity protocol only)

Leaf samples:

- 1. Take a single leaf punch of approximately 10 mm diameter, using a micro-tube cap. Mash the leaf tissue with a pestle matched to the micro-tube (EnviroLogix Tissue Extraction Kit).
- 2. Add 0.5 mL of Wash/Extraction Buffer per leaf punch. Mix for at least 30 seconds, then allow particles to settle. Take extreme care not to cross-contaminate between leaf samples.

Note: Leaf samples must be run in the assay on the same day they are punched.

How to Run the Assay

- Read all of these instructions before running the kit.
- Allow all reagents to reach room temperature before beginning (at least 30 minutes with un-boxed plates and reagents at room temperature do not remove plate from bag with desiccant until it has warmed up).
- Organize all sample extracts, and pipettes so that Step 1 can be performed in 15 minutes or less. The use of a multi-channel pipette is strongly recommended.
- Use a disposable-tip air-displacement pipette and a clean pipette tip to add each Calibrator and sample extract to the wells. Conjugate, Substrate, and Stop Solution may be added in the same manner; alternatively, use a repeating pipette with a disposable tip on the end of the Combitip for these three reagents.
- Use the well identification markings on the plate frame to guide you when adding the samples and reagents. For this qualitative assay, duplicate wells of the Wash/Extraction Buffer Blank (BL), user-supplied known negative sample (Negative Control, NC), and user-supplied known positive sample (Positive Control, PC), along with 90 sample extracts (S) in single wells may be run on one plate. (See the Qualitative Assay Example Plate Layout - Figure 1A, page 6).
- 1. Add 50 μ L of Enzyme Conjugate to each well, followed immediately by 50 μ L of Wash/Extraction Buffer Blank (BL), 50 μ L of clarified Positive and Negative Control sample extracts (PC, NC), and 50 μ L of each clarified sample extract (S) to their respective wells, as shown in the Example Plate Layout (Figure 1A).

NOTE: In order to minimize setup time it is recommended that a multi-channel pipette be used in steps 1, 5, and 7.

- 2. Thoroughly mix the contents of the wells by moving the plate in a rapid circular motion on the benchtop for a full 20-30 seconds. Be careful not to spill the contents!
- 3. Cover the wells with tape or Parafilm to prevent evaporation and incubate at ambient temperature according to the table below. If an orbital plate shaker is available, shake plate at 200 rpm.

HIGH SENSITIVITY PROTOCOL	2 hours
RAPID PROTOCOL	45 minutes

4. After incubation, carefully remove the covering and vigorously shake the contents of the wells into a sink or other suitable container. Flood the wells completely with Wash/Extraction Buffer, then shake to empty. Repeat this wash step three times. Alternatively, perform these four washes (300 μ L/well) with a microtiter plate or strip washer. Slap the inverted plate on a paper towel to remove as much liquid as possible.





Mix plate



Incubate



Wash plate



Read plates in a Plate Reader within 30 minutes of the addition of Stop Solution

- 5. Add 100 µL of Substrate to each well.
- 6. Thoroughly mix the contents of the wells, as in step 2. Cover the wells with <u>new</u> tape or Parafilm and incubate at ambient temperature according to the table below. Use orbital shaker if available.

HIGH SENSITIVITY PROTOCOL	30 minutes
RAPID PROTOCOL	15 minutes

Caution: Stop Solution is 1.0N Hydrochloric acid. Handle carefully.

7. Add 100 μ L of Stop Solution to each well and mix thoroughly. This will turn the well contents yellow.

NOTE: Read the plate within 30 minutes of the addition of Stop Solution.

How to Interpret the Results

Spectrophotometric Measurement

- 1. Set the wavelength of the microtiter plate reader to 450 nanometers (nm). (If it has dual wavelength capability, use 600, 630 or 650 nm as the reference wavelength.)
- 2. Set the plate reader to blank on the Wash/Extraction Buffer Blank wells (this should automatically subtract the mean optical density (OD) of the Blank wells from each control and sample OD). If the reader cannot do this, it must be done manually.

Note: The mean OD of the BLANK wells should not exceed 0.2.

Interpret the Results

A sample is generally considered to be positive if the blank-subtracted OD is greater than or equal to 0.2. For best results, a known negative sample as well as a low-level positive sample should be run as controls in each assay to help judge the results (a conventional and a 0.5% T25 ground corn sample, for example).

	1	2	3	4	5	6	7	8	9	10	11	12
А	BL	S6	S14	S22	S30	S38	S46	S54	S62	S70	S78	S86
В	NC	S 7	S15	S23	S31	S39	S47	S55	S63	S71	S79	S87
С	PC	S 8	S16	S24	S32	S40	S48	S56	S64	S72	S80	S88
D	S 1	S 9	S17	S25	S33	S41	S49	S57	S65	S73	S81	S89
Е	S 2	S10	S18	S26	S34	S42	S50	S58	S66	S74	S82	S90
F	S 3	S11	S19	S27	S35	S43	S51	S59	S67	S75	S83	BL
G	S 4	S12	S20	S28	S36	S44	S52	S60	S68	S76	S84	NC
Η	S5	S13	S21	S29	S37	S45	S53	S61	S69	S77	S85	PC

Figure 1A. Example of a typical Qualitative assay setup.

Precautions and Notes

- Store all Plate Kit components at 4°C to 8°C (39°F to 46°F) when not in use.
- Do not expose Plate Kit components to temperatures greater than 37°C (99°F) or less than 2°C (36°F).
- Allow all reagents to reach ambient temperature (18°C to 27°C or 64°F to 81°F) before use.









- Do not use kit components after the expiration date.
- Do not use reagents or plates from one Kit with reagents or plates from a different Kit.
- Do not expose Substrate to sunlight during pipetting or while incubating in test wells.
- The assay has been optimized to be used with the protocol provided in the kit. Deviation from this protocol may invalidate the results of the test.
- As with all tests, it is recommended that results be confirmed by an alternate method when necessary.
- Observe any applicable regulations when disposing of samples and kit reagents.
- Use extreme caution to prevent sample-to-sample cross-contamination with samples, fluids, or disposables.



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SECTION 1. Identification of the substance	/nixture and of the company/undertakino	Suitable extinguishing agents: 5.2 Special hazards arising from the substance or	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
1.1 Product identifier Trade name:	Wash Buffer Salts	mixture:	Carbon oxides, Oxides of Phosphorous, Potassium, Sodium, Hydrogen Chloride g
Part number: 1.2 Relevant identified uses of the substance or mixt	50-0091, 10099 ure	5.2 Advice for firefighters:	Wear protective equipment appropriate for fire conditions including respiratory protective gear
and uses advised against application of the subst / the preparation :	Laboratory chemicals		
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	EnviroLogix Inc., 500 Riverside Industrial Plowy. Portland ME 04103, USA	SECTION 6. Accidental release measures 6.1 Personal precautions, protective equipment	
1.4 Emergency telephone number:	(207) 797-0300 (207) 797-0300 Technical Service	and emergency procedures:	Use PPE, avoid dust formation, ensure adequate ventilation, avoid breathing dust
SECTION 2. Hazards identification		6.2 Environmental precautions: 6.3 Methods and material for containment and	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided.
2.1 Classification of the Substance or Mixture: Classification according to OSHA 29CFR 1910.	1200	6.3 Methods and material for containment and clean up:	Pick up and amange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal
(Hazard Communication):	Not a hazardous substance or mixture	6.4 Reference to other sections:	For safe handling refer to Section 7; For information on PPE refer to Section 8. For
2.2 Label Elements:	None required according to 29CFR 1910.1200		disposal, refer to Section 13.
Other indications	None	SECTION 7. Handling and storage 7.1 Precautions for safe handling:	Practice good chemical hygiene when handling. Avoid contact with eyes, skin and
		7.2 Conditions for safe storage, including any	clothing. Prevent formation of dust.
2.3 Additional Information:	No other information	Incompatibilities: 7.3 Specific end use(s):	Keep containers closed, store in a dry, well ventilated space. Apart from the uses mentioned in section 1.2, no other end uses are stipulated.
SECTION 3. Composition/information on in	mediants	a specific end datas.	Apart non the uses mentioned in section 3.2, no outer one uses are supraneed.
3.2 Mixture: Powdered solid Synonyms: PBS	a Konno	SECTION 8. Exposure controls/personal pr	otection
Hermodous Components	CAENE ECNE Amount Charlender	8.1 Control parameters: Components with workplace control Parameters:	Contains no substances with occupational exposure limit values
Potassium Chemical n	(%)	8.2 Exposure controls	
	Chronic 3; H412	8.2.1 Appropriate engineering controls:	Ensure eyewash and safety shower are nearby; provide ventilation if necessary
Based on the amount of hazardous ingredients in this	s product, it is not considered hazardous according to 29CFR 1910.1200	8.2.2 Personal Protective Equipment: Eyes	Safety glasses with side shields, goggles. Use equipment for eye protection tested an approved under appropriate government standards such as NIOSH (US) or EN 166 (
SECTION 4. First aid measures			Eye and face protection regulations are described by OSHA (US) in 29CFR1910.133
4.1 Description of first aid measures: After inhalation	Supply fresh air, consult doctor in case of breathing difficulties.	Hands	not wear contact lenses when working with chemicals Handle with gloves. Gloves must be inspected prior to use. Use proper glove remova
After skin contact	 Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation develops. 		technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable law
After eye contact	 Rinse opened eye for several minutes under running water. Seek medical attention if irritation develops. If swallowed, consult with medical staff or poison control center to determine if any 		and good laboratory practices. Wash and dry hands. The selected protective gloves h to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374
rana swanowing	 If swallowing consult with medical statt or poison control center to determine if any immediate response or follow up actions are recommended. Never give anything by mouth to an unconscious person. 	Respiratory protection	derived from it. Appropriate respiratory protection should be determined according to local condition
4.2 Most important symptoms and effects, both acute and delayed:	None	contactly processi	supportate respiratory protection and are determined according to local continuou using risk analysis protocols. An approved disposable air purifying particulate respir may be used as a backup to engineering controls. Always use respirators and comport
4.3 Indication of any immediate medical attention	No special treatment is required		tested and approved under appropriate government standards such as NIOSH (US) o CEN (EU).
and special treatment needed:	No special treatment is required	Body	Use body protection relative to its type and amount of material being handled
		8.2.3 Environmental controls	Sweep or wipe up spills, do not allow into sewers or drains
SECTION 9. Physical and chemical proper	jes de la companya de	SECTION 13. Disposal considerations	
SIGNITON DE Engele and chemical propert 9.1 Information on basic physical and chemical properties	ies	SECTION 13. Disposal considerations Dispose of excess or smooth product in accordance service to discose of this material.	with Local, State and Federal regulations. Contact a licensed professional waster disposa
9.1 Information on basic physical and chemical properties: a) Appearance: b) Odor:	White powder. None		with Leval, State and Federal regulations. Contact a licensed professional waste disposa
9.1 Information on basic physical and chemical properties: a) Appearance: b) Odor: c) Odor Threshold: d) pH:	White powder. None No data available 7.4	Dagoes of excess or unused product in accordance service to dispose of this material. SECTION 14. Transport information	
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9.1 Information on basic physical and chenical properties: a) Appearance: b) Odor: c) Odor Threshold d) plit c) Meding point/Beeling range: f) Desing point/Beeling range: b) Despoyration rate: b) Paraparability Gold gaseous):	White powder. Neas See sensibilite 7 4 No data available	Depose of excess or smoot product in accordance service to dispose of this material. SECTION 14. Transport Information 14.1 UN-Number DOT, ADR, ADN, MIGI, ADV 14.2 UN prover biging many DET, ADR, ADR 14.3 Transport bazard class(ev) (DOT, ADR, AD IATA)	A : Mor diagenous goods MIDG, IATA : Net diagenous goods DN, IMDG, Net avapticable,
9.1 Information on basic physical and chenical properties: a) Apparatose: b) Odor: c) Odor Threshold d) phit c) Moling point/Bealing range: b) Boiling point/Bealing range: b) Boiling point/Bealing range: b) Bioparation rate: b) Bioparation	White powder No the available 7.4 No data available No data available No data available No data available No data available	Dispose of excess or transad product in accordance service to dispose of this material. SECTION 14.3 Transport Information 14.1 UNN-number DOT, ADR, ADN, IMDG, IAT 14.2 I UN proper shipping name DOT, ADR, AD 14.3 Transport Razard Casheo, DOT, ADR, AD 14.5 Environmental hazard	A; , IMDG, IATA: Not dargerous goods , IMDG, IATA: Not dargerous goods , IMDG, Marta A, Status A, Statu
3.1 Information on basic physical and denical properties: a) Apparating: 	White powder, No. 0 No. 4 an available No data available	Dispose of excess or tunned product in accordance service to dispose of this material. SECUTON 14-3 Transport Information 14-1 UN-Number DOT, ADR, ADR, IMDG, IAT 14-2 UN-propriophipmig manu-DOT, ADR, ADR 14-3 TAT, Darrow Taxard doubset, DOT, ADR, ADR 14-4 Taching program (DOT, ADR, MDG, IATA) 14-4 Taching program (DOT, ADR, MDG, IATA)	A : Not dangerous goods 5, IMDG, IATTs : Not dangerous goods DN, IMDG, B : Not applicable. B : Not applicable. Not applicable.
3.1 Information on basic physical and denical properties: Appendic: 	White ponder, None No data available 7.4 No data available No data available	Dispose of excess or transad product in accordance service to dispose of this material. SECTION 14.7 Protoport Information 14.1 UNN-under DOT, ADR, ADR, IMDG, IAT 14.2 UN proper shipping name DOT, ADR, AD 14.3 Transport Razard Cashey, DOT, ADR, AD 14.3 Transport Razard Cashey, DOT, ADR, AD 14.5 Partonemental hazard 14.6 Special precautions for user : 14.6 Special precautions for user : 14.6 Special precautions for user : 14.7 Insuport in bulk according to Annex II of 	A : Not dangerous goods 5, IMDG, IATTs : Not dangerous goods DN, IMDG, B : Not applicable. B : Not applicable. Not applicable.
9.1 Information on basic physical and denical properties: a) Apparating: b) Adding opported b) Adding opported b) Adding opport b) Apportance b) Appo	White powder, Note an available 7.4 No data available No data available	Dispose of excess or transal product in accordance service to dispose of this material. SECTION 14.5 Transport Information 14.1 UN-under DOT, ADR, ADR, IMDG, IAT 14.3 Transport bard calcedy OOT, ADR, AD 14.3 Transport bard calcedy OOT, ADR, AD 14.5 Partonemental baard 14.6 Special precautions for user : 14.6 Special precautions for user : 14.7 Transport in bulk according to Ammental SECTION 15. Regulatory information 15.1 Safety, health and environmental	A : Not dangerou goods 5, IMDG, IATA: Not dangerou goods DN, IMDG, E Not applicable, Not applicable, Not applicable, Not applicable, Not applicable.
9.1 Information on basic physical and demical properties. a) Appairance: b) Oder b) Melling point/fixeding point b) Dispository Melling Point b) Vapor present b) Vapor present b) Melling those point b) Taplowing those point	White powder. Note Note Note No data available N	Dispose of excess or transal product in accordance service to dispose of this material. SEC UDN 14.1 reargent information 14.1 UN-where DTA 700, RAIN, MIGA IAT 14.2 UN proper shipping name DCT, ADR, ADI 14.3 reasoner bazard calsed; DCT, ADR, ADI 14.3 readour bazard calsed; DCT, ADR, ADI 14.4 Pachag group (DOT, ADR, IMDC, LATA) 14.4 Special precautions for user : 14.6 Special precautions for user : 14.5 Special precautions for user : 15.5 Mathy, health and antivormental IS.1 Mathy, health, and antivormental IS.1 Mathy, health and environmental IS.1 Mathy, health and environmental	A : Not dangerou goods 5, IMDG, IATA: Not dangerou goods DN, IMDG, E Not applicable, Not applicable, Not applicable, Not applicable, Not applicable.
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9.1 Information on basic physical and chemical properties: a) Apparature: b) Cole:	White powder. None Verified and the second	Dispose of excess or transad product in accordance service to dispose of this material. SEC UION 14.4 Transpose Information 14.1 UN-when FOLT ADR. ADR. MIGS, IAT 14.2 UN proper shipping mane DOT, ADR, ADI 14.3 Transport hazard calsed; DOT, ADR, ADI 14.3 Transport in balax 14.4 Practice and the second second second second second 14.4 Practice and the second second second second second 14.5 Special precautions for user : 14.5 Special precautions for user : 15.1 Safary, 16.8 Hegendations 15.1 Safary, 16.9 Hegendations 15.1 Safary, 16.9 Hegendations SafAR, Section 302 (Stermely Hazardons SafAR, Section 302 (Stermely Hazardons	A: Not dangerous goods 5; [MIC], [AT1: Not dangerous goods 30; [MIC], [AT1: Not dangerous goods 10; [MIC], [AT1: Not applicable, Not applicable, IMARPOL73/71 Not applicable. 90 Not listed Not listed Not listed Not listed Not listed
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9.1 Information on basic physical and denical properties: a) Appendix b) Appendix b) Adding point flocating point: b) Adding point flocating point: b) Adding point flocating point: b) Disportation rate: b) Papervision rate: b) Pa	White powder, New Sectors of the sector of	Dispose of excess or transal product in accordance service to dispose of this material. SEE UIX 14.1 rangeout information 14.1 UX-wave DTA range May Mint Autor 14.2 UN proper shipping many DOT, ADR, AUTA 14.3 rangeout baard calsed; DOT, ADR, AUTA 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.5 special precautions for user : 14.5 Transport in bulk according to Annex II of SET (Society Constraints) 15.1 Social precautions of users : 15.5 Social precautions wave and according to Annex II of SacAL Social 302 (Externely Hazardous SacAL Social Regulations SacAL Social Prop. 65 Competentis	A: Not dangerous goods 5; [MCG, IAT 3: Not dangerous goods 10; [MCG, IAT 3: Not dangerous goods 10; [MCG, IAT 3: Not applicable. Not applicable. MARPOL72/78: Not applicable. MarPOL72/78: Not applicable. 90 Not listed Not listed Not listed Not listed Not listed Not listed Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01 Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01 Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01
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9.1 Information on basic physical and denical properties: a) Appendix a) Appendix b) Adding point floating range c) Oddr Threshold d) Pit b) Adding point floating range b) Adding point floating range b) Pitoprofile and range b) Visod and range b) Polytoprofile b) Polytoprofile b) Oxdeling proporties: b) Oxdeling proporties: b) Oxdeling proporties: b) Adding range b) Adding range b) Pitoprofile b) Pitoprofile b) Pitoprofile b) Sold Pitoprofile b)	Willin powder, None No data available 7.4 No data available No data available Strong oxid:ring agents and strong acids. No data available	Dispose of excess or transal product in accordance service to dispose of this material. SEE UIX 14.1 rangeout information 14.1 UX-wave DTA range May Mint Autor 14.2 UN proper shipping many DOT, ADR, AUTA 14.3 rangeout baard calsed; DOT, ADR, AUTA 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.4 ration group (DOT, ADR, ALL 14.5 special precautions for user : 14.5 Transport in bulk according to Annex II of SET (Society Constraints) 15.1 Social precautions of users : 15.5 Social precautions wave and according to Annex II of SacAL Social 302 (Externely Hazardous SacAL Social Regulations SacAL Social Prop. 65 Competentis	A: Not dangerous goods 5; [MCG, IAT 3: Not dangerous goods 10; [MCG, IAT 3: Not dangerous goods 10; [MCG, IAT 3: Not applicable. Not applicable. MARPOL72/78: Not applicable. MarPOL72/78: Not applicable. 90 Not listed Not listed Not listed Not listed Not listed Not listed Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01 Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01 Discloation Hydrogenorfio-phosphate CAS No 7556-79-1 Rev Date: 2077-82-01
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9.1 Information on basic physical and denical properties: a) Appendix b) Adding posterilies and appendix c) Odd Thesehold d) Thesehold	Wiles ponder, Noce Noce No data available 7.4 No data available <	Dispose of measure arranged product in accordance service to dispose of this material. SEC 110N-1004 For Tangport Information 14.11NN-1004FORT ADR ADR MORE ANT 14.12 UN proper objeting mane DOT, ADR, ADI 14.13 Transport haved calced to DOT, ADR, ADI 14.17 and the ADR ADR ADR ADR ADR ADR ADR ADR ADR ADR	A: Not dangeross goods 5, (MDG), IAT X: Not dangeross goods 00, (MDG), 10, (MDG), 11, (MDG), 12, (MDG), 13, (MDG), 14,
9. Information on basic physical and checked approprints: 10 Appendixe: 11 Appendix: 12 Appendix: 12 Appendix: 12 Appendix: 13 Appendix: 13 Appendix: 14 Appendix: 14 Appendix: 14 Appendix: 14 Appendix: 14 Appendix: 15 Appendix: 14 Appendix: 15 Append	White powder. Note a wallable No data available	Dispose of encoders of manual product in accordance service to dispose of this material. SECTION 14.7 rearpyord information 14.1 UNN-under FOT, ADR, ADR, MIGA, IATA 14.2 UN proper shipping name DOT, ADR, ADR, MIGA, IATA 14.3 Transport hard calcedy (DOT, ADR, ADA, ADA, ADA, ADA, ADA, ADA, ADA	A: Not dangerous goods S; MICG, IAT X: Not dangerous goods DN, MIOCA Not approache. Not applicable. MARPOL7207 Not applicable. Mol listed Disolation life/organorfloophosphate CAS No 7556-79-4 Rev Date: 2007-02-04 Disolation life/organorfloophosphate CAS No 7556-79-4 Rev Date: 2007-02-04 Not tarried out
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9. Information on basic physical and checked approprints: 10. Appendixe: 10. Appendix: 10.	White powder, No an semilable 7.4 No data available No data availa	Dispose of measure arrand product in accordance service to dispose of this material. SEE 110N-value POIT ADR: ADR MORE ANT 14.1 UN-value POIT ADR: ADR MORE ANT 14.2 UN proper objeting mane DOT, ADR, ADR 14.3 Transport Insurf Losse's (DOT, ADR, ADR 14.1 Transport in builk according to Annex II of SEE 1015 - 15: Regulations 14.1 President Regulation 15.1 Status, Park and ADR MORE ANT 15.1 Status, Park and ADR MORE ANT 15.2 Chemical Status, Status 15.2 Chemical Status, If and Hone ADR MORE 15.2 Chemical Status, Adress ADR MORE 15.3 Chemical Status, If and Hone ADR MORE 15.1 Chemical Status, Adress ADR MORE 15.1 Chemical Status, Adress ADR MORE 15.2 Chemical Status, Adress ADR MORE 15.3 Chemical Status, Adress ADR MORE 15.3 Chemical Status, Adress ADR MORE 15.1 Chemical Status, Add MORE 15.1 Chemical Sta	A: Not dangerous goods S; MICG, IAT X: Not dangerous goods DN, MIOCA Not approache. Not applicable. MARPOL7207 Not applicable. Mol listed Disolation life/organorfloophosphate CAS No 7556-79-4 Rev Date: 2007-02-04 Disolation life/organorfloophosphate CAS No 7556-79-4 Rev Date: 2007-02-04 Not tarried out
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QualiPlate Kit for LibertyLink PAT/pat Page 9 of 9

SECTION 1. Identification of the substa	OSHA 290				CTION 3. Composit	ion/inform:	tion on ingr	redients	
.1 Product identifier Trade name:	Stop Sol	ution		3.2	Mixture Aqueous solution	IN Hydrochl	ric Acid (1N	HCl, 3% HCl)	
Synonyms: Part number	1.0 N HC		iD007)		Chemical name	Amount (%)	CAS No	Classification According to 0	OSHA 29CFR 1910.1200
.2 Relevant identified uses of the substance or mixture and uses advised against applicati	ion				Hydrochloric acid	1-4 %	EC No	Hazard Classification	Hazard Code
of the substance / the preparation : 1.3 Details of the supplier of the safety data sho Manufacturer/Supplier:	eet	y chemicals gix Inc., 500 Riverside Industria	al Dimus				7647-01-0	May be Corrosive to Metals	H290
Manufacturer Supplier.	Portland M	IE 04103, USA 07) 797-0300	ai rawy.				231-595-7	Causes Skin Imitation	H315
1.4 Emergency telephone number:		0300 Technical Service						Causes Serious Eye Damage	H318
	(400) 100								
SECTION 2. Hazards identification 2.1 Classification of the substance or mixture	Hazard	Classes							
Classification according to OSHA 29 CFR 19	Skin Irrit	arrosive (Cat. 1) H290 ation (Cat 2) H315							
	Senous 1	eye damage (Cat. 1) H318		SP	CTION 4. First aid	measures			
2.2 Label elements Labeling according to OSHA 29CFR 1910.12	200			4.1 [Description of first aid After inhalation :	measures		In case of inhalation. Remove to fresh air	r If not breathing give artificial
	~				After skin contact :			In case of inhalation. Remove to fresh air respiration. Get medical attention immed In case of skin contact. Remove contamir	diately. nated clothing and shoes immedia
Hazard pictograms :	4.5	>						Wash affected area with mild soap or deta evidence of chemical remains.	tergent for at least 10 minutes or u
Signal word :	\sim			А	After eye contact :			In case of eve contact, immediately flush minutes. Lifting eyelids occasionally, un	eves with plenty of water for at l- ntil no evidence of chemical remai
Hazard statements:	Warning			А	After swallowing :			medical attention immediately. In case of ingestion. DO NOT Induce vor	miting unless directed to do so by
The are statements.	H315 Ci	ay be corrosive to metals asses skin irritation uses serious eye damage		~				medical personnel. Never give anything a physician immediately.	by mouth to an unconscious pers
Precautionary statements:	P281		ctive equipment as required	4.2 N	Most important sympt And delayed:	oms and effe	cts, both acut	Ie May cause skin irritation and eye damage	e
	P302 + P	352 IF ON SKIN: Wash 351+P338 IF IN EYES: Rinse	h with plenty of soap and water. e cautiously with water for several		ndication of any imm special treatment need		al attention a		
		minutes. Remove c Continue rinsing.	contact lenses if present and easy to do.		special treatment need	lea:		DO NOT use sodium bicarbonate in an at	ttempt to neutralize the acid.
2.3 Other Statements	None			SEC	TION 5. Firefighti	ng measure	s		
				5.1 E	Extinguishing media:			CO2, extinguishing powder or water spray. Fig	ght larger fires with water spray o
				5.2 S	Special hazards arisin mixture:	g from the su	bstance or	Hydrogen Chloride gas	
				5.3 /	Advice for firefighters	e.		Wear protective gear appropriate for fire cond	litions including respiratory prote-
								gear.	
SDS : Stop Solution (XGD007)		Revision : 13 April, 2015	Page 1 of 6	SE	DS : Stop Solution ()			Revision : 13 April, 2015	Pi
		Revision : 13 April, 2015	Page 1 of 6						Pi
6.3 Methods and material for containment and	Abseth in paper				TION 9. Physical	and chemic			Pi
6.3 Methods and material for containment and cleanup:	Absorb in paper Large spills may oxide.	towel and discard in appropriate	e wate. Clean with water alterwards. tieres of softum carbonate or calcium	533 9.1	TTION 9. Physical Information on basic chemical propertie) Appearance:	and chemic	c	s Iear liquid, coloriass to alight yellow.	Pi
6.3 Methods and material for containment and	Absorb in paper Large spills may oxide.	towel and discard in appropriate be neutralized with dilute solut refer to Section 7. For inform		520 9.1 a b	Information on basis chemical propertic a) Appearance: a) Odor: c) Odor Threshold:	and chemic	l Pi N	s Ioar liquid, colodase to slight yellow. urgent (slight) O that Avaulable	P
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